

## The Right Wire Protection Solution for Every Shipboard Application



Glenair offers a wire protection solution for every shipboard requirement. Our comprehensive MIL-C-24758 conduit product line provides complete compatibility with virtually every type of electrical connector and interconnect system and can be supplied completely wired and terminated - ready for use - or as component elements. A complete range of fittings, transitions, adapters, shielding, overbraiding, and jacketing can satisfy the most complex and demanding applications - from test equipment, robotics, and missile launch systems to shipboard warning systems and naval avionics.

Glenair uniquely offers three types of conduit conforming to MIL-C-24758 (SH): For superior shielding performance and crush resistance, Glenair's standard M24758/1 conduit offers a brass inner core with a bronze overbraid, sealed from the weather by a neoprene outer jacket. The brass conduit may also be ordered with a compressed inner core for increased flexibility.

For applications where crush resistance is not required, Glenair offers a fluorocarbon (FEP) inner core with two tin over copper braids and

a neoprene outer jacket.

The complete range of conduit, tubing and fittings have been tested and approved to all applicable Mil-Spec standards and provide optimal EMI, EMP, and RFI shielding across all frequencies including H and E fields, TEMPEST and lightning strike. Glenair's MIL-C-24758 conduit systems also provide:

- **Crush Resistance**
- **Environmental/NBC Protection**
- **Abrasion Resistance**
- **Flexibility**
- **Weight Reduction**
- **Temperature Protection**
- **Field or Factory Assembly**
- **Factory Repairability**

Glenair continues to design and manufacture many additional MIL-C-24758 style products to meet specific customer and industry needs. Glenair is also a qualified supplier of NAVSEA RP2000 and GR2000 series fitting. A list of available NAVSEA designs is provided on page F-31.

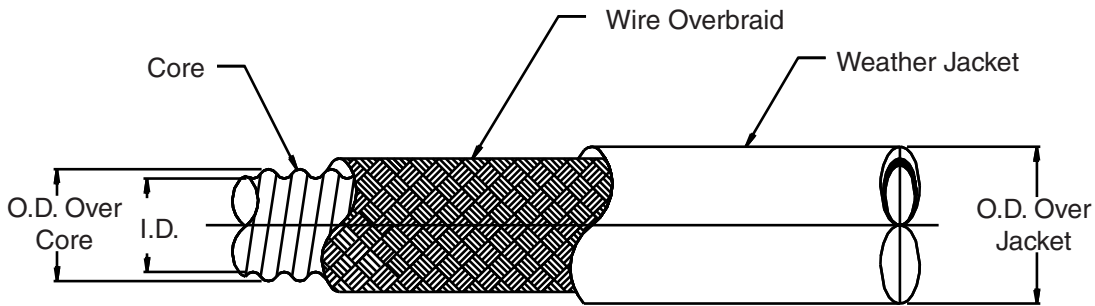
**Standard Brass,  
Compressed Brass  
and FEP**

**M24758/1-16-F**

Basic Part No. \_\_\_\_\_

Core Designator: (See Note 1)  
Omit for uncompressed brass  
F = FEP  
C = Compressed Brass

Conduit Size Code \_\_\_\_\_



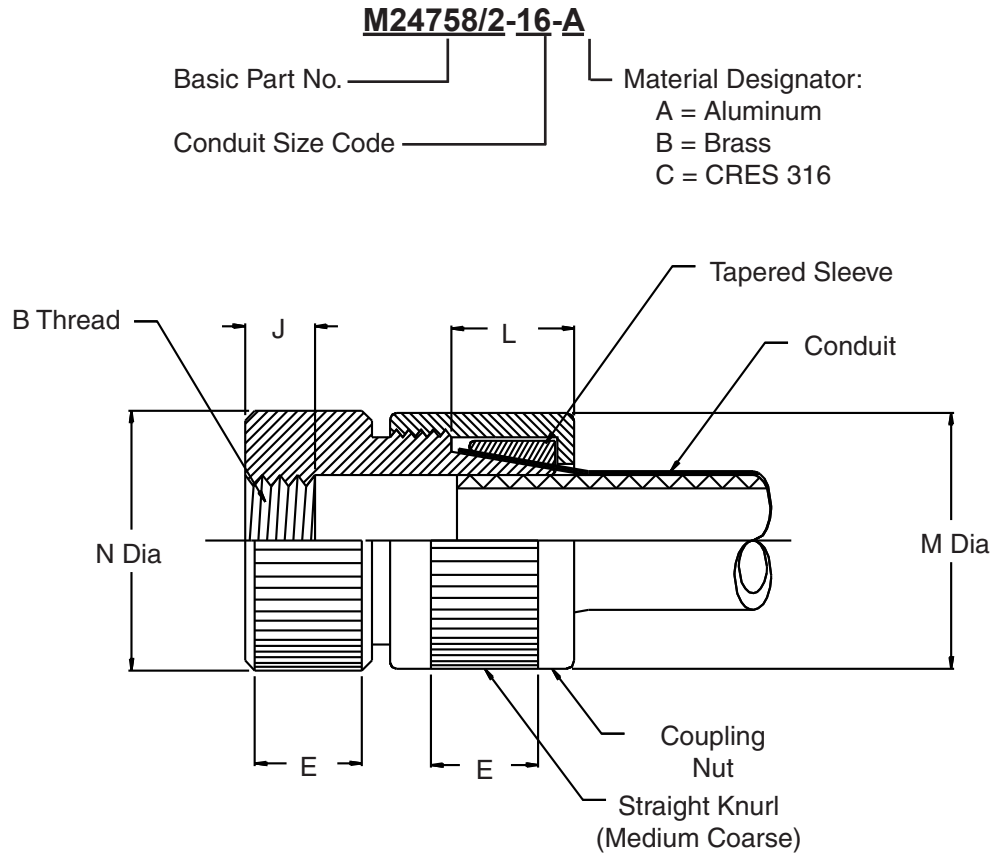
**TABLE I**

Conduit Size Code	Nominal I.D.		I.D. Min		O.D. (Over Core) ±0.01 (.3)		O.D. (Over Jacket) ±.040 (1.0)		Min Bend Radius (Inside)
02	.250	(6.4)	.245	(6.2)	.364	(9.2)	.580	(14.7)	1.250 (31.8)
03	.375	(9.5)	.370	(9.4)	.488	(12.4)	.700	(17.8)	2.000 (50.8)
04	.500	(12.7)	.495	(12.6)	.637	(16.2)	.850	(21.6)	2.500 (63.5)
05	.625	(15.9)	.620	(15.7)	.760	(19.3)	.980	(24.9)	3.000 (76.2)
06	.750	(19.1)	.745	(18.9)	.880	(22.4)	1.100	(27.9)	3.750 (95.3)
08	1.000	(25.4)	.995	(25.3)	1.192	(30.3)	1.410	(35.8)	5.000 (127.0)
10	1.250	(31.8)	1.245	(31.6)	1.454	(36.9)	1.660	(42.2)	6.250 (158.8)
12	1.500	(38.1)	1.495	(38.0)	1.704	(43.3)	1.910	(48.5)	7.500 (190.5)
16	2.000	(50.8)	1.995	(50.7)	2.214	(56.2)	2.440	(62.0)	10.000 (254.0)
20	2.500	(63.5)	2.495	(63.4)	2.714	(68.9)	2.940	(74.7)	12.500 (317.5)
24	3.000	(76.2)	2.995	(76.1)	3.204	(81.4)	3.440	(87.4)	15.000 (381.0)

**NOTES:**

1. The standard conduit core material is crush-resistant, high performance brass. No core designator is used when ordering the standard brass core. FEP core material can be specified by adding "F" to the end of the standard part number configuration. Compressed brass core can be specified by adding "C" to the end of the standard part number configuration.
2. FEP core is supplied with two tin/copper braids, and a neoprene jacket
3. Metric dimensions (mm) are indicated in parentheses.
4. For complete dimensions see applicable Military Specification.

# M24758/2 Straight Conduit Fitting



**TABLE I**

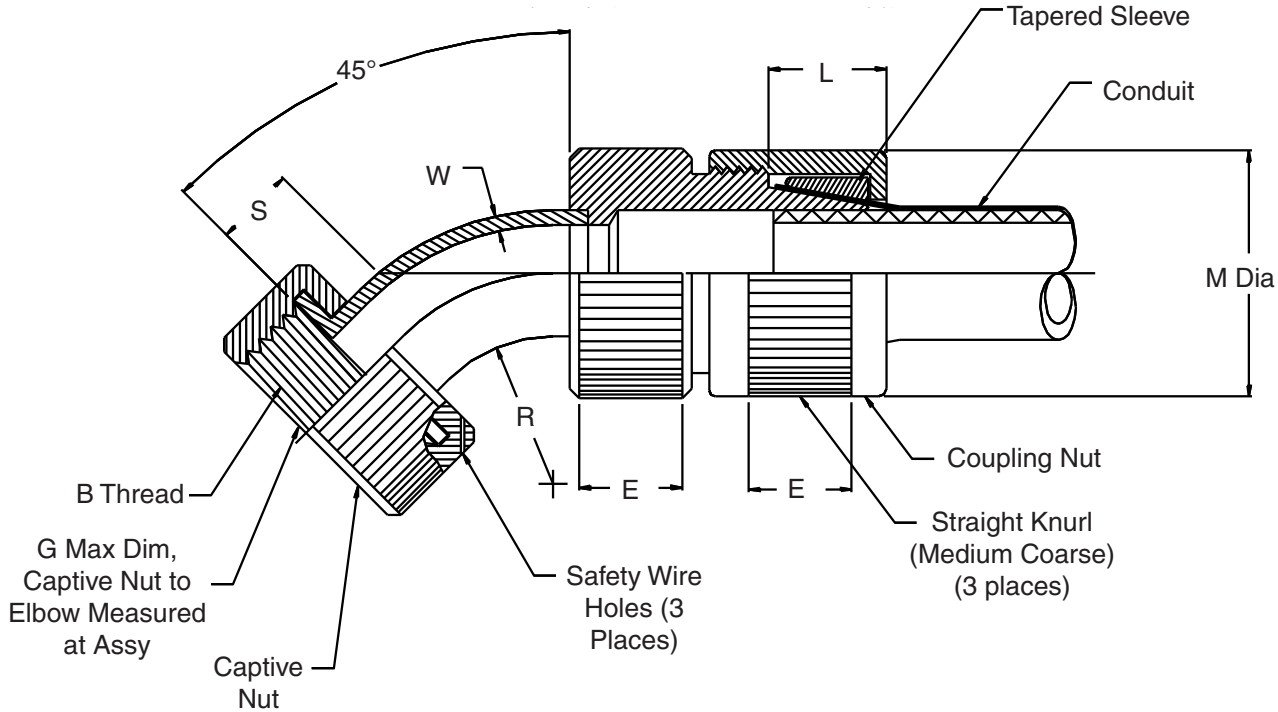
Conduit Size Code	B THREAD (Class 2B)	E KNURL LENGTH		J THREAD LENGTH		L CONE LENGTH	M DIA	N DIA			
		$\pm .06$ (15.2)	(15.2)	$+ .06$ (15.2)	$- .00$ (15.2)	$\pm .06$ (15.2)	(Maximum)	(Maximum)			
02	0.438 - 28 UNEF	.500	(12.7)	.210	(5.3)	.750	(19.1)	.930	(23.6)	.700	(17.8)
03	0.563 - 24 UNEF	.500	(12.7)	.250	(6.4)	.750	(19.1)	1.120	(28.4)	.820	(20.8)
04	0.688 - 24 UNEF	.620	(15.7)	.250	(6.4)	.750	(19.1)	1.250	(31.8)	.970	(24.6)
05	0.813 - 20 UNEF	.620	(15.7)	.310	(7.9)	.750	(19.1)	1.430	(36.3)	1.120	(28.4)
06	0.938 - 20 UNEF	.750	(19.1)	.310	(7.9)	.750	(19.1)	1.620	(41.1)	1.220	(31.0)
08	1.250 - 18 UNEF	.750	(19.1)	.370	(9.4)	1.000	(25.4)	1.810	(46.0)	1.530	(38.9)
10	1.563 - 18 UNEF	.870	(22.1)	.370	(9.4)	1.000	(25.4)	2.180	(55.4)	1.810	(46.0)
12	1.875 - 16 UN	.870	(22.1)	.430	(10.9)	1.000	(25.4)	2.560	(65.0)	2.120	(53.8)
16	2.375 - 16 UN	1.000	(25.4)	.430	(10.9)	1.000	(25.4)	3.060	(77.7)	2.620	(66.5)
20	2.875 - 16 UN	1.000	(25.4)	.430	(10.9)	1.000	(25.4)	3.680	(93.5)	3.120	(79.2)
24	3.375 - 16 UN	1.000	(25.4)	.430	(10.9)	1.000	(25.4)	4.380	(111.3)	3.620	(91.9)

1. The function of the M24758/2 fitting is to terminate flexible shielding conduit and to provide a standard thread for attaching all M24758/9 through M24758/19 fittings.
2. Metric dimensions (mm) are indicated in parentheses.
3. For complete dimensions see applicable Military Specification.

### M24758/3-16-A

Basic Part No. \_\_\_\_\_  
 Conduit Size Code \_\_\_\_\_

Material Designator:  
 A = Aluminum  
 B = Brass  
 C = CRES 316

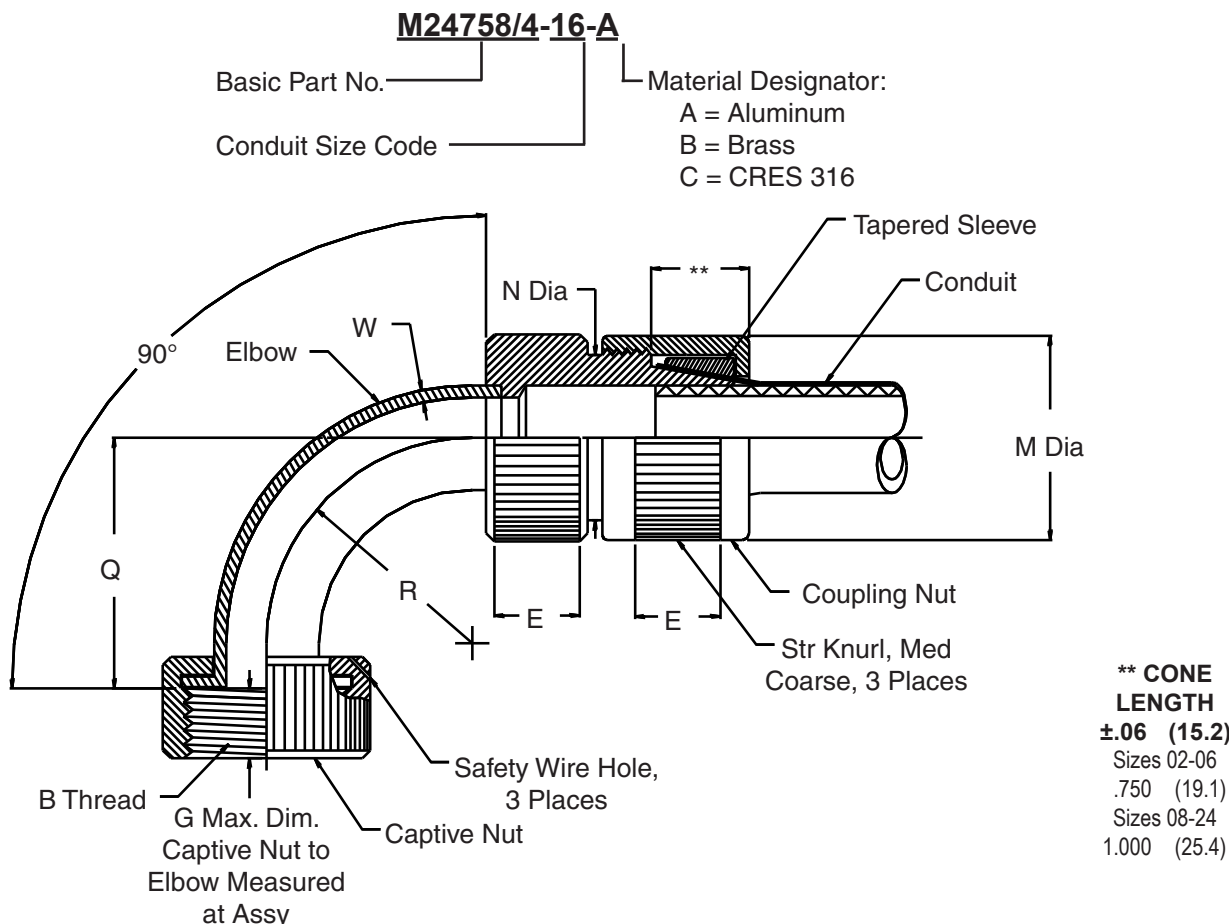


**TABLE I**

Conduit Size Code	B Thread (Class 2B)	E Knurl Length ±.06 (15.2)	G +.01 (-02) (.3) (.5)	L CONE LENGTH ±.06 (15.2)	M Dia (Maximum)	S +.06 (15.2)	R Bend Radius ±.06 (15.2)	W Wall Thickness <sup>1 of 1</sup> (Minimum)
02	0.438 - 28 UNEF	.500 (12.7)	.140 (3.6)	.750 (19.1)	.930 (23.6)	.370 (9.4)	.430 (10.9)	.028 (.7)
03	0.563 - 24 UNEF	.500 (12.7)	.170 (4.3)	.750 (19.1)	1.120 (28.4)	.370 (9.4)	.560 (14.2)	.028 (.7)
04	0.688 - 24 UNEF	.620 (15.7)	.170 (4.3)	.750 (19.1)	1.250 (31.8)	.370 (9.4)	.750 (19.1)	.028 (.7)
05	0.813 - 20 UNEF	.620 (15.7)	.230 (5.8)	.750 (19.1)	1.430 (36.3)	.370 (9.4)	.870 (22.1)	.028 (.7)
06	0.938 - 20 UNEF	.750 (19.1)	.230 (5.8)	.750 (19.1)	1.620 (41.1)	.370 (9.4)	1.060 (26.9)	.028 (.7)
08	1.250 - 18 UNEF	.750 (19.1)	.290 (7.4)	1.000 (25.4)	1.810 (46.0)	.430 (10.9)	1.370 (34.8)	.028 (.7)
10	1.563 - 18 UNEF	.870 (22.1)	.290 (7.4)	1.000 (25.4)	2.180 (55.4)	.430 (10.9)	1.680 (42.7)	.028 (.7)
12	1.875 - 16 UN	.870 (22.1)	.350 (8.9)	1.000 (25.4)	2.560 (65.0)	.430 (10.9)	2.060 (52.3)	.058 (1.5)
16	2.375 - 16 UN	1.000 (25.4)	.350 (8.9)	1.000 (25.4)	3.060 (77.7)	.430 (10.9)	2.680 (68.1)	.058 (1.5)
20	2.875 - 16 UN	1.000 (25.4)	.350 (8.9)	1.000 (25.4)	3.680 (93.5)	.430 (10.9)	3.310 (84.1)	.058 (1.5)
24	3.375 - 16 UN	1.000 (25.4)	.350 (8.9)	1.000 (25.4)	4.380 (111.3)	.500 (12.7)	4.500 (114.3)	.058 (1.5)

1. The function of the M24758/3 fitting is to terminate flexible shielding conduit and to provide a standard thread for attaching all M24758/9 through M24758/19 fittings.
2. Metric dimensions (mm) are indicated in parentheses.
3. For complete dimensions see applicable Military Specification.

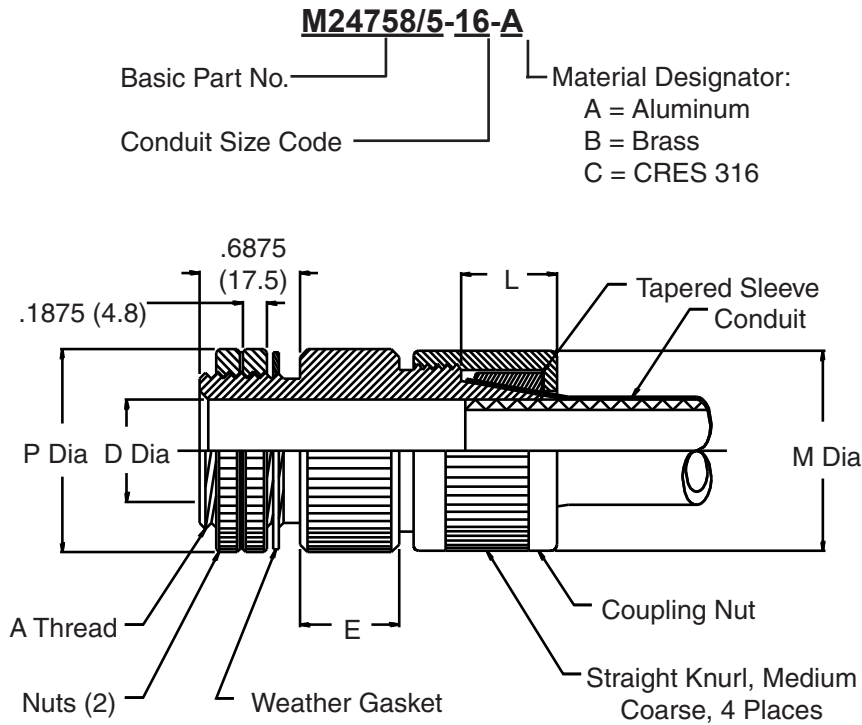
# M24758/4 90° Conduit Fitting



**TABLE I**

Conduit Size Code	B Thread (Class 2B)	E Knurl Length		G +.01 (.3)	M Dia (Maximum)	N Dia (Maximum)	Q	R Bend Radius		W Wall Thickness (Minimum)					
		± .06 (15.2)	(.127)					±.06 (15.2)	(15.2)						
02	0.438 - 28 UNEF	.500	(12.7)	.140	(3.6)	.930	(23.6)	.700	(17.8)	.810	(20.6)	.430	(10.9)	.028	(.7)
03	0.563 - 24 UNEF	.500	(12.7)	.170	(4.3)	1.120	(28.4)	.820	(20.8)	.930	(23.6)	.560	(14.2)	.028	(.7)
04	0.688 - 24 UNEF	.620	(15.7)	.170	(4.3)	1.250	(31.8)	.970	(24.6)	1.120	(28.4)	.750	(19.1)	.028	(.7)
05	0.813 - 20 UNEF	.620	(15.7)	.230	(5.8)	1.430	(36.3)	1.120	(28.4)	1.250	(31.8)	.870	(22.1)	.028	(.7)
06	0.938 - 20 UNEF	.750	(19.1)	.230	(5.8)	1.620	(41.1)	1.220	(31.0)	1.700	(43.2)	1.060	(26.9)	.028	(.7)
08	1.250 - 18 UNEF	.750	(19.1)	.290	(7.4)	1.810	(46.0)	1.530	(38.9)	1.810	(46.0)	1.370	(34.8)	.028	(.7)
10	1.563 - 18 UNEF	.870	(22.1)	.290	(7.4)	2.180	(55.4)	1.810	(46.0)	2.120	(53.8)	1.680	(42.7)	.028	(.7)
12	1.875 - 16 UN	.870	(22.1)	.350	(8.9)	2.560	(65.0)	2.120	(53.8)	2.500	(63.5)	2.060	(52.3)	.058	(1.5)
16	2.375 - 16 UN	1.000	(25.4)	.350	(8.9)	3.060	(77.7)	2.620	(66.5)	3.120	(79.2)	2.680	(68.1)	.058	(1.5)
20	2.875 - 16 UN	1.000	(25.4)	.350	(8.9)	3.680	(93.5)	3.120	(79.2)	3.250	(82.6)	3.310	(84.1)	.058	(1.5)
24	3.375 - 16 UN	1.000	(25.4)	.350	(8.9)	4.380	(111.3)	3.620	(91.9)	4.500	(114.3)	4.500	(114.3)	.058	(1.5)

1. The function of the M24758/4 fitting is to terminate flexible shielding conduit and to provide a standard thread for attaching all M24758/9 through M24758/19 fittings.
2. Metric dimensions (mm) are indicated in parentheses.
3. For complete dimensions see applicable Military Specification.

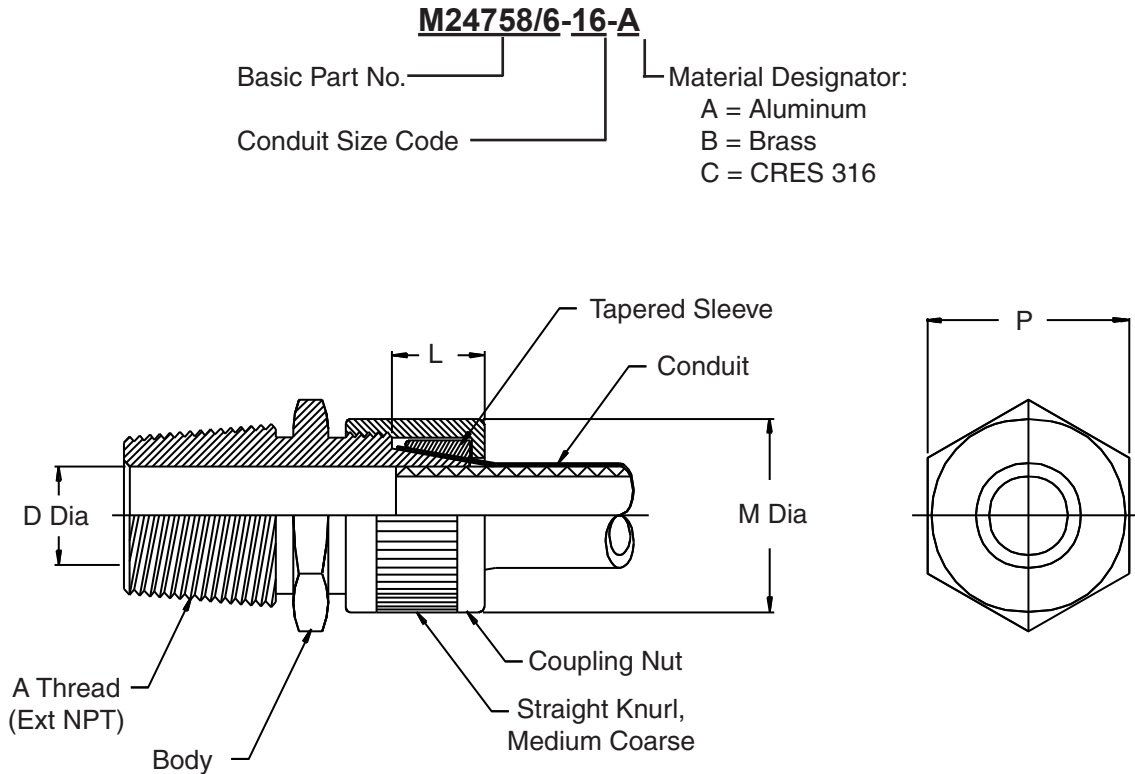


**TABLE I**

Conduit Size Code	A Thread (Class 2A)	D Dia (Minimum)	E Knurl Length ±.06 (15.2)	L Cone Length ±.06 (15.2)	M Dia (Maximum)	P Dia (Minimum)
02	0.625 - 24 UNEF	.250 (6.4)	.500 (12.7)	.750 (19.1)	.930 (23.6)	.870 (22.1)
03	0.750 - 20 UNEF	.370 (9.4)	.500 (12.7)	.750 (19.1)	1.120 (28.4)	1.000 (25.4)
04	0.875 - 20 UNEF	.500 (12.7)	.560 (14.2)	.750 (19.1)	1.250 (31.8)	1.120 (28.4)
05	1.000 - 20 UNEF	.620 (15.7)	.560 (14.2)	.750 (19.1)	1.430 (36.3)	1.250 (31.8)
06	1.188 - 18 UNEF	.750 (19.1)	.620 (15.7)	.750 (19.1)	1.620 (41.1)	1.430 (36.3)
08	1.438 - 18 UNEF	1.000 (25.4)	.620 (15.7)	1.000 (25.4)	1.810 (46.0)	1.680 (42.7)
10	1.750 - 16 UN	1.250 (31.8)	.680 (17.3)	1.000 (25.4)	2.180 (55.4)	2.000 (50.8)
12	2.000 - 16 UN	1.500 (38.1)	.680 (17.3)	1.000 (25.4)	2.560 (65.0)	2.250 (57.2)
16	2.500 - 16 UN	2.000 (50.8)	.750 (19.1)	1.000 (25.4)	3.060 (77.7)	3.000 (76.2)
20	3.000 - 16 UN	2.500 (63.5)	.750 (19.1)	1.000 (25.4)	3.680 (93.5)	3.500 (88.9)
24	3.500 - 16 UN	3.000 (76.2)	.750 (19.1)	1.000 (25.4)	4.380 (111.3)	4.000 (101.6)

1. The function of the M24758/5 fitting is to terminate flexible shielding conduit directly to a panel. Two jam nuts are supplied with this fitting. One nut secures the fitting to the panel, and a second nut acts as a lock nut to the first.
2. Metric dimensions (mm) are indicated in parentheses.
3. For complete dimensions see applicable Military Specification.

# M24758/6 Conduit-to-Threaded Pipe Fittings



**TABLE I**

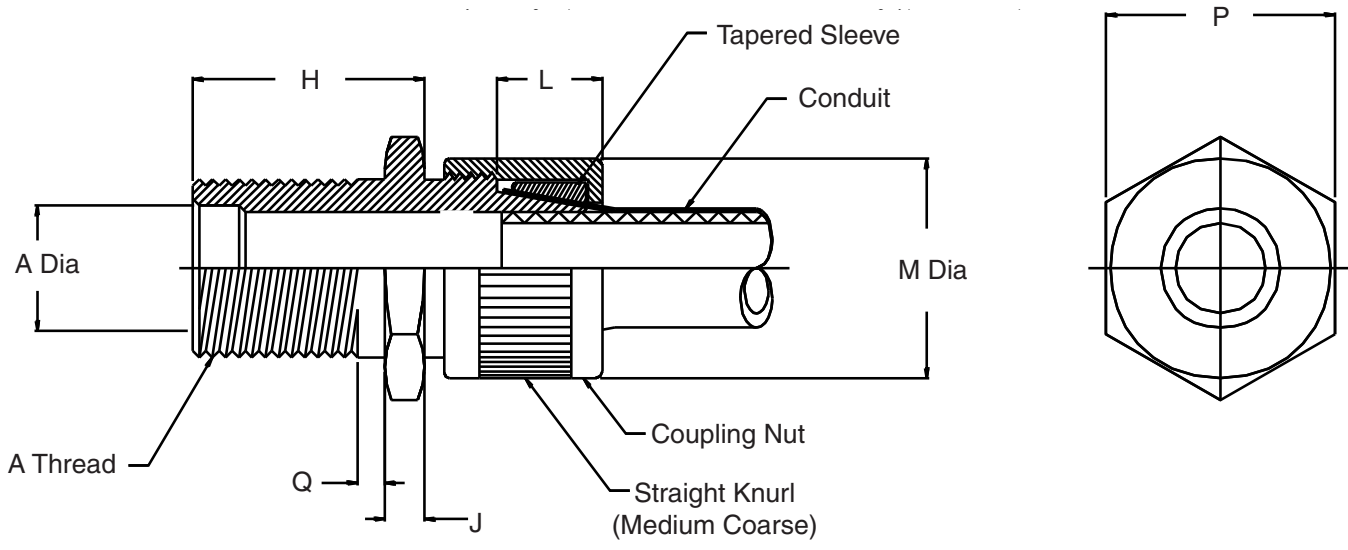
Conduit Size Code	A Thread (Class 2A)	D Dia (Minimum)	L Cone Length ±.06 (15.2)	M Dia (Maximum)	P Dia (Minimum)
02	0.250 - 18.00 NPT	.250 (6.4)	.750 (19.1)	.930 (23.6)	.750 (19.1)
03	0.375 - 18.00 NPT	.370 (9.4)	.750 (19.1)	1.120 (28.4)	.870 (22.1)
04	0.500 - 14.00 NPT	.500 (12.7)	.750 (19.1)	1.250 (31.8)	.960 (24.4)
05	0.750 - 14.00 NPT	.620 (15.7)	.750 (19.1)	1.430 (36.3)	1.180 (30.0)
06	0.750 - 14.00 NPT	.750 (19.1)	.750 (19.1)	1.620 (41.1)	1.370 (34.8)
08	1.000 - 11.50 NPT	1.000 (25.4)	1.000 (25.4)	1.810 (46.0)	1.500 (38.1)
10	1.250 - 11.50 NPT	1.250 (31.8)	1.000 (25.4)	2.180 (55.4)	1.810 (46.0)
12	1.500 - 11.50 NPT	1.500 (38.1)	1.000 (25.4)	2.560 (65.0)	2.120 (53.8)
16	2.000 - 11.50 NPT	2.000 (50.8)	1.000 (25.4)	3.060 (77.7)	2.620 (66.5)
20	2.500 - 8.00 NPT	2.500 (63.5)	1.000 (25.4)	3.680 (93.5)	3.250 (82.6)
24	3.000 - 8.00 NPT	3.000 (76.2)	1.000 (25.4)	4.380 (111.3)	3.870 (98.3)

1. The function of the M24758/6 fitting is to terminate flexible shielding conduit with a reusable fitting having an external tapered pipe thread.
2. Metric dimensions (mm) are indicated in parentheses.
3. For complete dimensions see applicable Military Specification.

**M24758/7-04-B-A**

Basic Part No. \_\_\_\_\_  
 Conduit Size Code \_\_\_\_\_  
 Stuffing Tube Size Code \_\_\_\_\_

Material Designator:  
 A = Aluminum  
 B = Brass  
 C = CRES 316



1. The M24758/7 adapter couples MIL-S-24235/9 through MIL-S-24235/17 stuffing tubes to M24758/1 conduit.
2. Any combination of conduit and stuffing tube sizes may be ordered by identifying the appropriate conduit size and stuffing tube size in the part number configuration.
3. Metric dimensions (mm) are indicated in parentheses.
4. For complete dimensions see applicable Military Specification.



**M24758/7**  
**Conduit-to-Stuffing Tube Fitting**



Conduit  
Systems

**TABLE I**

Conduit Size Code	L Cone Length		M Dia (Maximum)
	±.06	(15.2)	
02	.750	(19.1)	.930 (23.6)
03	.750	(19.1)	1.120 (28.4)
04	.750	(19.1)	1.250 (31.8)
05	.750	(19.1)	1.430 (36.3)
06	.750	(19.1)	1.620 (41.1)
08	1.000	(25.4)	1.810 (46.0)
10	1.000	(25.4)	2.180 (55.4)
12	1.000	(25.4)	2.560 (65.0)
16	1.000	(25.4)	3.060 (77.7)
20	1.000	(25.4)	3.680 (93.5)
24	1.000	(25.4)	4.380 (111.3)

**TABLE II**

MIL-S-24235 Stuffing Tube Size Code	A Thread (Class 2A)	A Dia	H ±.02 (.5)	J ±.02 (.5)	P Dim (Minimum)	Q ±.02 (.5)
A	0.875 - 12 UN	.406 (10.3)	1.063 (27.0)	.188 (4.8)	1.031 (26.2)	.188 (4.8)
B	1.000 - 12 UN	.515 (13.1)	1.063 (27.0)	.188 (4.8)	1.125 (28.6)	.188 (4.8)
C	1.125 - 12 UN	.640 (16.3)	1.063 (27.0)	.188 (4.8)	1.250 (31.8)	.188 (4.8)
D	1.250 - 12 UN	.750 (19.1)	1.063 (27.0)	.188 (4.8)	1.375 (34.9)	.188 (4.8)
E	1.250 - 12 UN	.812 (20.6)	1.063 (27.0)	.188 (4.8)	1.375 (34.9)	.188 (4.8)
F	1.313 - 12 UN	.843 (21.4)	1.188 (30.2)	.188 (4.8)	1.438 (36.5)	.188 (4.8)
G	1.500 - 12 UN	.935 (23.7)	1.188 (30.2)	.188 (4.8)	1.656 (42.1)	.188 (4.8)
J	1.625 - 12 UN	1.062 (27.0)	1.188 (30.2)	.188 (4.8)	1.781 (45.2)	.188 (4.8)
K	1.750 - 12 UN	1.171 (29.7)	1.500 (38.1)	.188 (4.8)	1.875 (47.6)	.188 (4.8)
L	1.813 - 12 UN	1.265 (32.1)	1.500 (38.1)	.188 (4.8)	1.938 (49.2)	.188 (4.8)
M	2.000 - 12 UN	1.406 (35.7)	1.500 (38.1)	.250 (6.4)	2.188 (55.6)	.188 (4.8)
N	2.063 - 12 UN	1.515 (38.5)	1.563 (39.7)	.250 (6.4)	2.250 (57.2)	.188 (4.8)
P	2.188 - 12 UN	1.625 (41.3)	1.563 (39.7)	.250 (6.4)	2.344 (59.5)	.188 (4.8)
R	2.313 - 12 UN	1.750 (44.5)	1.563 (39.7)	.250 (6.4)	2.469 (62.7)	.188 (4.8)
S	2.688 - 12 UN	1.875 (47.6)	2.188 (55.6)	.313 (8.0)	2.813 (71.5)	.250 (6.4)
T	2.875 - 12 UN	2.062 (52.4)	2.188 (55.6)	.313 (8.0)	2.969 (75.4)	.250 (6.4)
V	3.000 - 12 UN	2.187 (55.5)	2.188 (55.6)	.313 (8.0)	3.094 (78.6)	.250 (6.4)
W	3.125 - 12 UN	2.312 (58.7)	2.188 (55.6)	.313 (8.0)	3.281 (83.3)	.250 (6.4)
X	3.250 - 12 UN	2.500 (63.5)	2.188 (55.6)	.313 (8.0)	3.438 (87.3)	.250 (6.4)
Y	3.375 - 12 UN	2.609 (66.3)	2.188 (55.6)	.313 (8.0)	3.563 (90.5)	.250 (6.4)
Z	3.563 - 12 UN	2.781 (70.6)	2.188 (55.6)	.313 (8.0)	3.750 (95.3)	.250 (6.4)
AA	3.750 - 12 UN	2.875 (73.0)	3.125 (79.4)	.438 (11.1)	3.875 (98.4)	.250 (6.4)
BB	4.000 - 12 UN	3.157 (80.2)	3.125 (79.4)	.438 (11.1)	4.125 (104.8)	.250 (6.4)

# Every Picture Tells a Story



## This One Speaks Volumes

**G**lenair is in the business of solving even the most complex interconnect design problems. That's why we've built our conduit product line to take advantage of our forty years of experience in harness assembly and interconnect packaging.

We know that your problem isn't solved when the connector and wire are selected. The real work starts with the packaging of the key components for actual use. Glenair is ready

with wire protection solutions that include plastic convoluted tubing, metal-core conduit, jacketing and metal or fabric overbraiding. We also produce a line of robust composite junction boxes, which add new design options to traditional conduit wire protection assemblies.

At Glenair, we're ready to go with both the individual technologies, as well as the most innovative and effective packaging solutions available today. Now *that's* a story worth telling.



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# M24758/8 Conduit-to-Conduit Fitting



## M24758/8-16-A

Basic Part No.

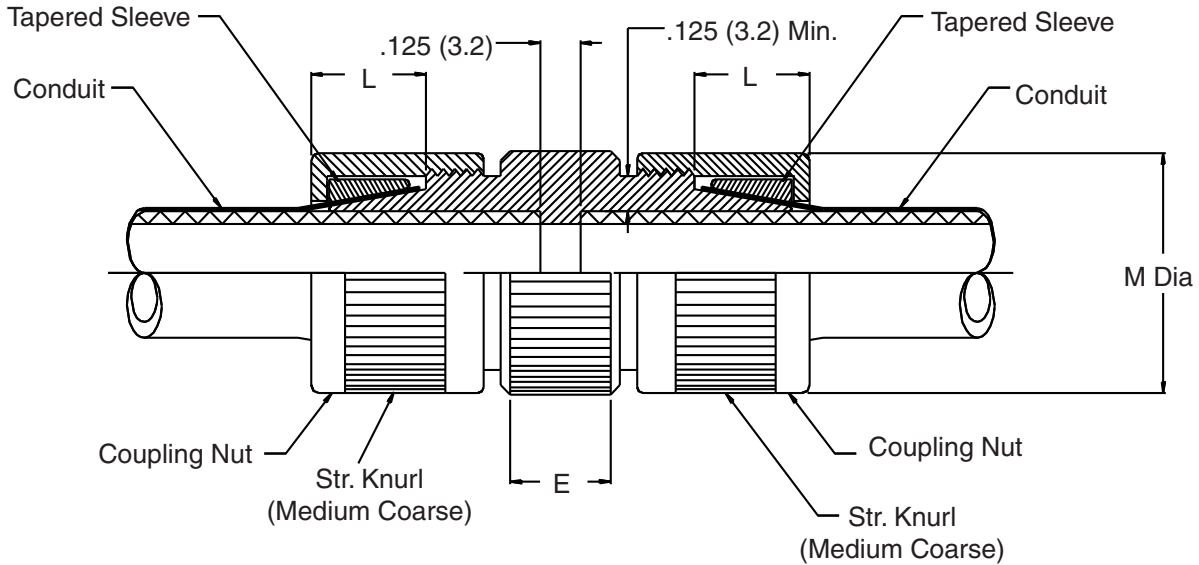
Conduit Size Code

Material Designator:

A = Aluminum

B = Brass

C = CRES 316



**TABLE I**

Conduit Size Code	E Knurl Length ±.06 (15.2)	L Cone Length ±.06 (15.2)	M Dia (Maximum)
02	.500 (12.7)	.750 (19.1)	.930 (23.6)
03	.500 (12.7)	.750 (19.1)	1.120 (28.4)
04	.560 (14.2)	.750 (19.1)	1.250 (31.8)
05	.560 (14.2)	.750 (19.1)	1.430 (36.3)
06	.620 (15.7)	.750 (19.1)	1.620 (41.1)
08	.620 (15.7)	1.000 (25.4)	1.810 (46.0)
10	.680 (17.3)	1.000 (25.4)	2.180 (55.4)
12	.680 (17.3)	1.000 (25.4)	2.560 (65.0)
16	.750 (19.1)	1.000 (25.4)	3.060 (77.7)
20	.750 (19.1)	1.000 (25.4)	3.680 (93.5)
24	.750 (19.1)	1.000 (25.4)	4.380 (111.3)

1. The function of the M24758/8 conduit-to-conduit fitting is to connect two sections of flexible shielding conduit. Consult factory to mate two different sizes of conduit.
2. Metric dimensions (mm) are indicated in parentheses.
3. For complete dimensions see applicable Military Specification.

### M24758/9-16-06-01-A

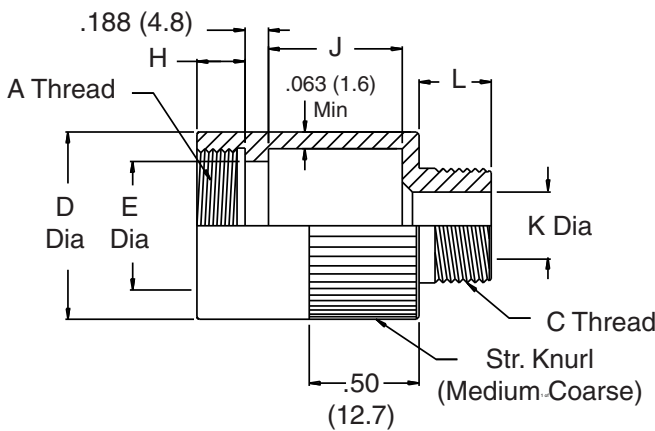
Basic Part No. \_\_\_\_\_

Conduit Size Code \_\_\_\_\_  
(See Table I)

A-Thread Code \_\_\_\_\_  
(See Table II)

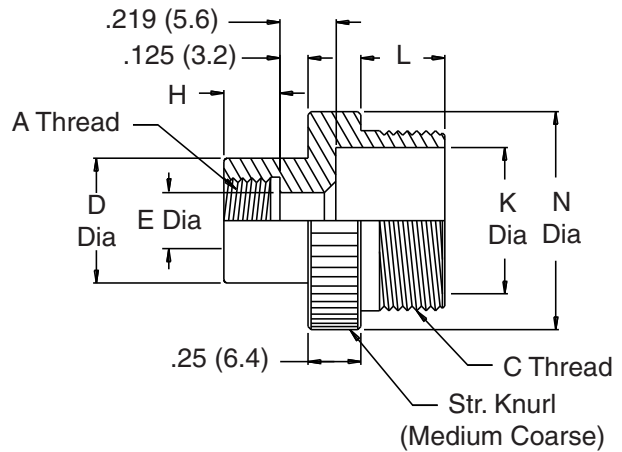
Material Designator:  
A = Aluminum  
B = Brass  
C = CRES 316

Style Designator \_\_\_\_\_



**STYLE 01**  
FOR USE WHEN E DIAMETER IS  
GREATER THAN K DIAMETER

**STYLE 02**  
SAME AS STYLE 01 EXCEPT  
J DIMENSION IS ZERO



**STYLE 03**  
FOR USE WHEN E DIAMETER IS  
EQUAL TO OR LESS THAN K DIAMETER

### TABLE I

Conduit Size Code	C Thread (Class 2A)	L ±.02 (.5)	K Dia Min.	N Dia ±.02 (.5)
02	0.438 - 28 UNEF	.210 (5.3)	.250 (6.4)	.687 (17.4)
03	0.563 - 24 UNEF	.250 (6.4)	.370 (9.4)	.812 (20.6)
04	0.688 - 24 UNEF	.250 (6.4)	.500 (12.7)	.937 (23.8)
05	0.813 - 20 UNEF	.310 (7.9)	.620 (15.7)	1.062 (27.0)
06	0.938 - 20 UNEF	.310 (7.9)	.750 (19.1)	1.187 (30.1)
08	1.250 - 18 UNEF	.370 (9.4)	1.000 (25.4)	1.500 (38.1)
10	1.563 - 18 UNEF	.370 (9.4)	1.250 (31.8)	1.812 (46.0)
12	1.875 - 16 UN	.430 (10.9)	1.500 (38.1)	2.125 (54.0)
16	2.375 - 16 UN	.430 (10.9)	2.000 (50.8)	2.625 (66.7)
20	2.875 - 16 UN	.430 (10.9)	2.500 (63.5)	3.125 (79.4)
24	3.375 - 16 UN	.430 (10.9)	3.000 (76.2)	3.625 (92.1)

1. The M24758/9 adapter couples MIL-C-5015 connectors (MS3100, MS3101, MS3106, and MS-series backshells) to M24758/2, M24758/3 or M24758/4 fittings.
2. For MIL-C-5015, MS3400 Series, the M24758/13 adapter may be used.
2. Metric dimensions (mm) are indicated in parentheses.
3. For complete dimensions see applicable Military Specification.

**M24758/9**  
**Adapter for MIL-C-5015 Series 3100 Connectors**



**TABLE II (MIL-C-5015 Connector Codes)**

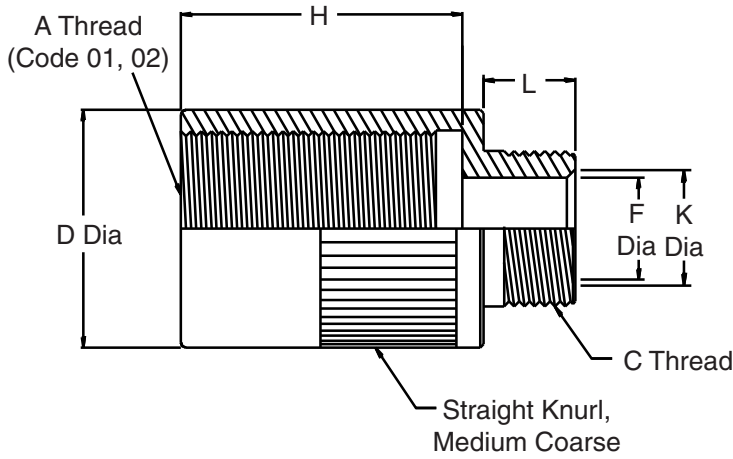
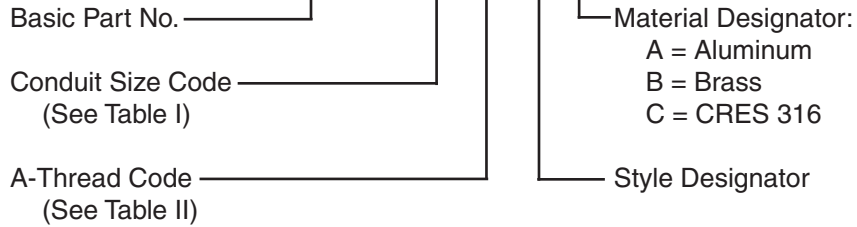
Connector Code	Class	Manufacturer	Series
A		All Manufacturers	MS-Series Backshell
B	A	Amphenol	MS3100, MS3101, MS3106, 97-3100, 97-3101, 97-3106
C	E & R	Amphenol	MS3100, MS3101, MS3106, 69-3100, 69-3101, 69-3106
D	A, E & R	Bendix	MS3100, MS3101, MS3106, 10-214, 10-720, 10-721, 10-726
E	A	Cannon	MS3100, MS3101, MS3106, CA-3101, CA-3106
F	E & R	Cannon	MS3100, MS3101, MS3106,

**TABLE III (A Thread Code and Adapter Dimensions)**

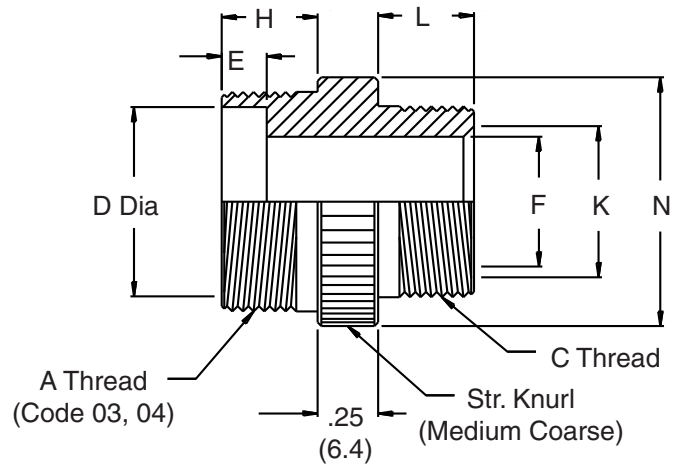
A Thread Code	Conn. Shell Size	Conn. Code (Table II)	A Thread (Class 2B)		D Dia		E Dia		J Style 01*	
			$\pm.02$	(.5)	$\pm.02$	(.5)	$\pm.02$	(.5)	$\pm.03$	(.8)
01	8S	D	0.375 - 32 UNEF	.180 (4.6)	.500 (12.7)	.280 (7.1)	.500 (12.7)			
02	8S	B	0.438 - 27 UNS	.210 (5.3)	.560 (14.2)	.340 (8.6)	.530 (13.5)			
03	8	C, E, F	0.438 - 28 UNEF	.210 (5.3)	.560 (14.2)	.340 (8.6)	.530 (13.5)			
04	8S	A	0.500 - 28 UNEF	.210 (5.3)	.620 (15.7)	.370 (9.4)	.560 (14.2)			
04	10S	A, B, C, D, E	0.500 - 28 UNEF	.210 (5.3)	.620 (15.7)	.370 (9.4)	.560 (14.2)			
05	10S	E	0.563 - 24 UNEF	.250 (6.4)	.680 (17.3)	.450 (11.4)	.590 (15.0)			
05	10SL	E, F	0.563 - 24 UNEF	.250 (6.4)	.680 (17.3)	.450 (11.4)	.590 (15.0)			
06	10SL	A, B, C, D	0.625 - 24 UNEF	.250 (6.4)	.750 (19.1)	.500 (12.7)	.620 (15.7)			
06	12, 12S	A, D, F	0.625 - 24 UNEF	.250 (6.4)	.750 (19.1)	.500 (12.7)	.620 (15.7)			
07	12, 12S	B, C, E	0.688 - 24 UNEF	.250 (6.4)	.810 (20.6)	.570 (14.5)	.650 (16.5)			
08	12SL	A	0.750 - 20 UNEF	.280 (7.1)	.870 (22.1)	.620 (15.7)	.680 (17.3)			
08	14, 14S	A, B, C, D, E, F	0.750 - 20 UNEF	.280 (7.1)	.870 (22.1)	.620 (15.7)	.680 (17.3)			
09	16, 16S	A, B, C, D, E, F	0.875 - 20 UNEF	.280 (7.1)	1.000 (25.4)	.750 (19.1)	.710 (18.0)			
10	18	A, B, C, D, E, F	1.000 - 20 UNEF	.280 (7.1)	1.120 (28.4)	.870 (22.1)	.750 (19.1)			
11	20	B, D, E, F	1.125 - 18 UNEF	.280 (7.1)	1.250 (31.8)	1.000 (25.4)	.780 (19.8)			
12	20	C	1.125 - 24 UNS	.280 (7.1)	1.250 (31.8)	1.000 (25.4)	.780 (19.8)			
13	20, 22	A	1.188 - 18 UNEF	.280 (7.1)	1.310 (33.3)	1.060 (26.9)	.810 (20.6)			
14	22	B, C, D, E, F	1.250 - 18 UNEF	.280 (7.1)	1.370 (34.8)	1.120 (28.4)	.870 (22.1)			
15	24	B, C, D, E, F	1.375 - 18 UNEF	.280 (7.1)	1.500 (38.1)	1.250 (31.8)	1.000 (25.4)			
16	24, 28	A	1.438 - 18 UNEF	.280 (7.1)	1.560 (39.6)	1.310 (33.3)	1.060 (26.9)			
17	28	B, C, D, E, F	1.625 - 18 UNEF	.280 (7.1)	1.750 (44.5)	1.500 (38.1)	1.120 (28.4)			
18	32	A	1.750 - 18 UNS	.280 (7.1)	1.870 (47.5)	1.620 (41.1)	1.180 (30.0)			
19	32	D, E, F	1.875 - 16 UN	.280 (7.1)	2.000 (50.8)	1.750 (44.5)	1.250 (31.8)			
20	32	B, C	1.906 - 18	.280 (7.1)	2.030 (51.6)	1.780 (45.2)	1.280 (32.5)			
21	36	A	2.000 - 18 UNS	.280 (7.1)	2.120 (53.8)	1.870 (47.5)	1.340 (34.0)			
22	36	D	2.063 - 16 UNS	.310 (7.9)	2.180 (55.4)	1.930 (49.0)	1.370 (34.8)			
23	36	C	2.063 - 20	.280 (7.1)	2.180 (55.4)	1.930 (49.0)	1.370 (34.8)			
24	36	E, F	2.125 - 16 UN	.310 (7.9)	2.250 (57.2)	2.000 (50.8)	1.400 (35.6)			
25	36	B	2.125 - 18 UN	.280 (7.1)	2.250 (57.2)	2.000 (50.8)	1.400 (35.6)			
26	40	A	2.250 - 16 UN	.310 (7.9)	2.370 (60.2)	2.120 (53.8)	1.500 (38.1)			
27	40	D	2.313 - 16 UNS	.310 (7.9)	2.430 (61.7)	2.180 (55.4)	1.560 (39.6)			
28	40	B, E, F	2.375 - 16 UN	.310 (7.9)	2.500 (63.5)	2.250 (57.2)	1.620 (41.1)			
29	44	B, F	2.625 - 16 UN	.310 (7.9)	2.750 (69.9)	2.500 (63.5)	1.870 (47.5)			
30	48	F	2.813 - 18	.280 (7.1)	2.930 (74.4)	2.680 (68.1)	2.060 (52.3)			
31	48	B	2.875 - 16 UN	.310 (7.9)	3.000 (76.2)	2.750 (69.9)	2.120 (53.8)			

\* For Style 02, J Dimension is zero.

### M24758/10-16-01-01-A



**STYLE 01**  
ADAPTER WITH  
INTERNAL "A" THREAD



**STYLE 02**  
ADAPTER WITH  
EXTERNAL "A" THREAD

1. The M24758/10 adapter couples triaxial connectors to M24758/2, M24758/3 or M24758/4 fittings.
2. Metric dimensions (mm) are indicated in parentheses.
3. For complete dimensions see applicable Military Specification.

# M24758/10 Adapter for Triaxial Connectors



Conduit  
Systems

**TABLE I**

Conduit Size Code	C Thread (Class 2A)	L		K Dia Min.		N Dia	
		±.02	(.5)			±.02	(.5)
02	0.438 - 28 UNEF	.210	(5.3)	.250	(6.4)	.687	(17.4)
03	0.563 - 24 UNEF	.250	(6.4)	.370	(9.4)	.812	(20.6)
04	0.688 - 24 UNEF	.250	(6.4)	.500	(12.7)	.937	(23.8)
05	0.813 - 20 UNEF	.310	(7.9)	.620	(15.7)	1.062	(27.0)
06	0.938 - 20 UNEF	.310	(7.9)	.750	(19.1)	1.187	(30.1)
08	1.250 - 18 UNEF	.370	(9.4)	1.000	(25.4)	1.500	(38.1)
10	1.563 - 18 UNEF	.370	(9.4)	1.250	(31.8)	1.812	(46.0)
12	1.875 - 16 UN	.430	(10.9)	1.500	(38.1)	2.125	(54.0)
16	2.375 - 16 UN	.430	(10.9)	2.000	(50.8)	2.625	(66.7)
20	2.875 - 16 UN	.430	(10.9)	2.500	(63.5)	3.125	(79.4)
24	3.375 - 16 UN	.430	(10.9)	3.000	(76.2)	3.625	(92.1)

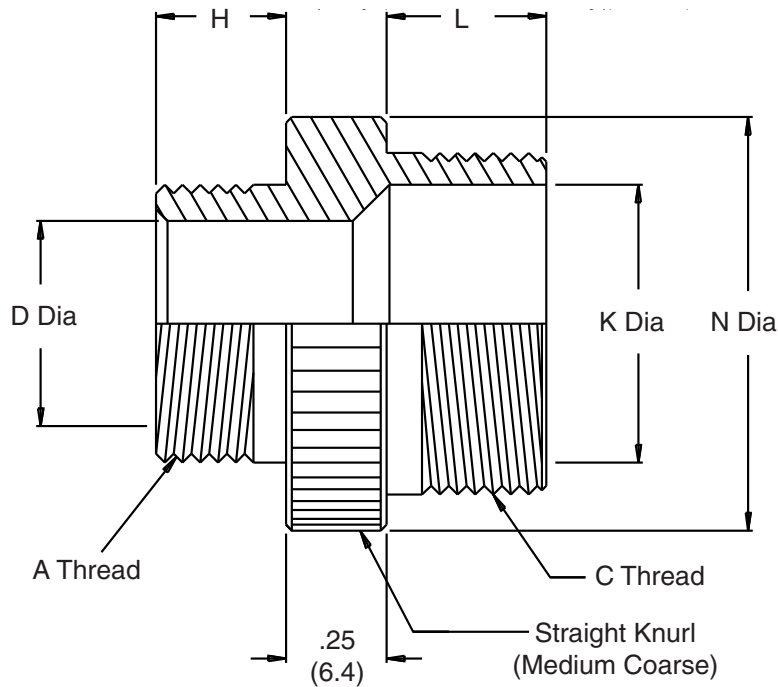
**TABLE II (MIL-C-5015 Connector Code)**

A Thread Code	Connector Part Number		A Thread	D Dia Min.	E Min.	F Dia Min.	H Dia ±.02 (.5)	Cable Reference	
	ITT/Cannon	Formerly Gremar						Type	±.02 OD (.5)
01	152105-2380	5633	0.750 - 16 UNF Class 2B	.875 (22.2)	--	.297 (7.5)	.562 (14.3)	RG-233/U	.216 (5.5)
								RG-58C/U	.195 (5.0)
02	152100-2390	7991	0.875 - 20 UNEF Class 2B	1.000 (25.4)	--	.515 (13.1)	.500 (12.7)	RG-214/U	.425 (10.8)
								RG-98/U	.420 (10.7)
03	152190-0000	16312	1.063 - 18 UNEF Class 2A	.922 (23.4)	.187 (4.7)	.564 (14.3)	.312 (7.9)	RG-14A/U	.545 (13.8)
								RE-293A/U	.545 (13.8)
								*TRF-8	.500 (12.7)
								RG-14A/U	.545 (13.8)
04		11865	1.063 - 18 UNEF Class 2A	.922 (23.4)	.227 (5.8)	.564 (14.3)	.335 (8.5)	RE-293A/U	.545 (13.8)
								*TRF-8	.500 (12.7)

\* Times Wire and  
Cable Co.

### M24758/11-16-01-A

Basic Part No.		Material Designator:
Conduit Size Code (See Table I)		A = Aluminum
A-Thread Code (See Table II and Note 2)		B = Brass
		C = CRES 316



1. The M24758/11 adapter couples coaxial connectors to M24758/2, M24758/3 or M24758/4 fittings.
2. Select an A-thread from Table II which matches that of the back of the nut on the connector being used. If none of the A-threads match, substitute the desired A-thread information in lieu of the A-thread code in the part number. For example, a fitting for a 0.375" conduit with a 0.5-28 A-thread of 0.313" H-length would have the part number: M24758/11-03-0.5-28-0.313-A.
3. Metric dimensions (mm) are indicated in parentheses.
4. For complete dimensions see applicable Military Specification.



**M24758/11**  
**Adapter for Coaxial Connectors**



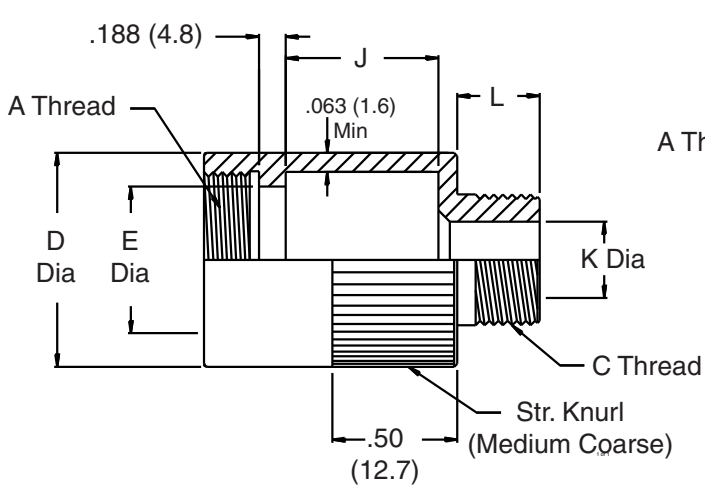
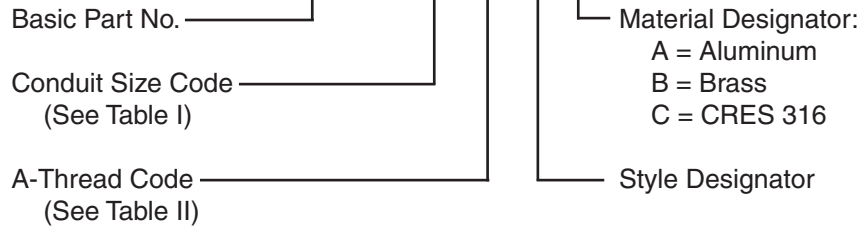
**TABLE I**

Conduit Size Code	C Thread (Class 2A)	L		K Dia Min.		N Dia	
		±.02	(.5)			±.02	(.5)
02	0.438 - 28 UNEF	.210	(5.3)	.250	(6.4)	.687	(17.4)
03	0.563 - 24 UNEF	.250	(6.4)	.370	(9.4)	.812	(20.6)
04	0.688 - 24 UNEF	.250	(6.4)	.500	(12.7)	.937	(23.8)
05	0.813 - 20 UNEF	.310	(7.9)	.620	(15.7)	1.062	(27.0)
06	0.938 - 20 UNEF	.310	(7.9)	.750	(19.1)	1.187	(30.1)
08	1.250 - 18 UNEF	.370	(9.4)	1.000	(25.4)	1.500	(38.1)
10	1.563 - 18 UNEF	.370	(9.4)	1.250	(31.8)	1.812	(46.0)
12	1.875 - 16 UN	.430	(10.9)	1.500	(38.1)	2.125	(54.0)
16	2.375 - 16 UN	.430	(10.9)	2.000	(50.8)	2.625	(66.7)
20	2.875 - 16 UN	.430	(10.9)	2.500	(63.5)	3.125	(79.4)
24	3.375 - 16 UN	.430	(10.9)	3.000	(76.2)	3.625	(92.1)

**TABLE II (A Thread and Fitting Dimensions)**

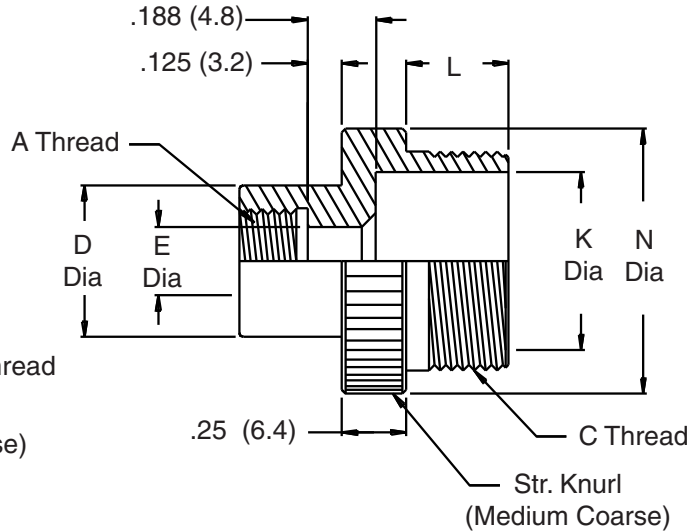
A Thread Code	Ø A Thread (Class 2A)	H		D Dia		Coaxial Cable	
		±.03	(.8)	±.02	(.5)	Type	OD
02	0.375 - 32 UNEF	.210	(5.3)	.226	(5.7)	RG-58	.195 (5.0)
						RG-223	.216 (5.5)
04	0.438 - 28 UNEF	.250	(6.4)	.345	(8.8)	RG-5	.332 (8.4)
						RG-6	.332 (8.4)
						RG-21	.332 (8.4)
06	0.625 - 24 UNEF	.310	(7.9)	.433	(11.0)	RG-9	.420 (10.7)
						RG-214	.425 (10.8)
08	0.688 - 24 UNEF	.310	(7.9)	.568	(14.4)	RG-14	.545 (13.8)
						RG-293	.545 (13.8)
10	0.938 - 20 UNEF	.310	(7.9)	.650	(16.5)	RG-57	.625 (15.9)
						RG-294	.630 (16.0)
12	0.813 - 20 UNEF	.310	(7.9)	.895	(22.7)	RG-17	.870 (22.1)

### M24758/12-16-01-01-A



**STYLE 01**  
FOR USE WHEN E DIAMETER IS  
GREATER THAN K DIAMETER

**STYLE 02**  
SAME AS STYLE 01 EXCEPT  
J DIMENSION IS ZERO



**STYLE 03**  
FOR USE WHEN E DIAMETER IS  
EQUAL TO OR LESS THAN K DIAMETER

1. The M24758/12 adapter couples MIL-C-26482 Series I connectors (MS3110, MS3111, or MS3116 series) to M24758/2, M24758/3 or M24758/4 fittings.
2. For MIL-C-26482 series 2, the M24758/13 adapter may be used.
3. Metric dimensions (mm) are indicated in parentheses.
4. For complete dimensions see applicable Military Specification.

**M24758/12**  
**Adapter for MIL-C-26482 Series I Connectors**



**TABLE I**

Conduit Size Code	C Thread (Class 2A)	L		K Dia Min.		N Dia	
		±.02	(.5)	±.02	(.5)	±.02	(.5)
02	0.438 - 28 UNEF	.210	(5.3)	.250	(6.4)	.687	(17.4)
03	0.563 - 24 UNEF	.250	(6.4)	.370	(9.4)	.812	(20.6)
04	0.688 - 24 UNEF	.250	(6.4)	.500	(12.7)	.937	(23.8)
05	0.813 - 20 UNEF	.310	(7.9)	.620	(15.7)	1.062	(27.0)
06	0.938 - 20 UNEF	.310	(7.9)	.750	(19.1)	1.187	(30.1)
08	1.250 - 18 UNEF	.370	(9.4)	1.000	(25.4)	1.500	(38.1)
10	1.563 - 18 UNEF	.370	(9.4)	1.250	(31.8)	1.812	(46.0)
12	1.875 - 16 UN	.430	(10.9)	1.500	(38.1)	2.125	(54.0)
16	2.375 - 16 UN	.430	(10.9)	2.000	(50.8)	2.625	(66.7)
20	2.875 - 16 UN	.430	(10.9)	2.500	(63.5)	3.125	(79.4)
24	3.375 - 16 UN	.430	(10.9)	3.000	(76.2)	3.625	(92.1)

**TABLE II (A Thread Code and Adapter Dimensions)**

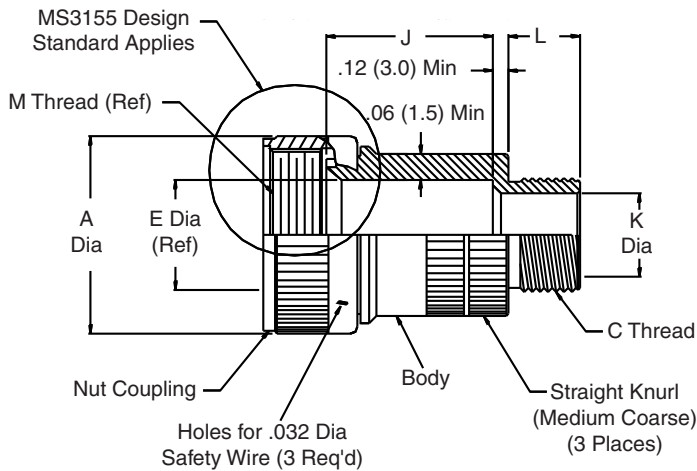
A Thread Code	Connector Shell Size	A Thread (Class 2B)	D Dia		E Dia		J Style 01	
			±.02	(.5)	±.02	(.5)	±.02	(.5)
07	08	0.438 - 28 UNEF	.590	(15.0)	.340	(8.6)	.870	(22.1)
09	10	0.563 - 24 UNEF	.710	(18.0)	.450	(11.4)	.870	(22.1)
11	12	0.688 - 24 UNEF	.840	(21.3)	.570	(14.5)	.870	(22.1)
13	14	0.813 - 20 UNEF	.960	(24.4)	.680	(17.3)	.870	(22.1)
15	16	0.938 - 20 UNEF	1.090	(27.7)	.810	(20.6)	.870	(22.1)
17	18	1.063 - 18 UNEF	1.210	(30.7)	.930	(23.6)	1.060	(26.9)
19	20	1.188 - 18 UNEF	1.340	(34.0)	1.060	(26.9)	1.180	(30.0)
21	22	1.313 - 18 UNEF	1.460	(37.1)	1.180	(30.0)	1.620	(41.1)
23	24	1.438 - 18 UNEF	1.590	(40.4)	1.310	(33.3)	1.680	(42.7)

**M24758/13-16-08-01-A**

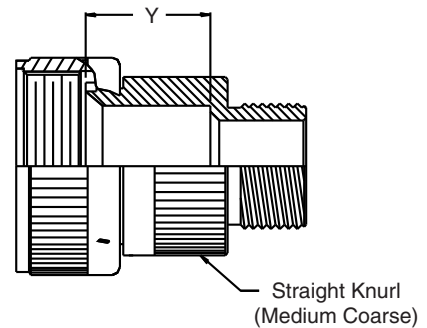
Basic Part No. \_\_\_\_\_  
 Conduit Size Code \_\_\_\_\_  
 (See Table I)  
 Connector Dash Number \_\_\_\_\_  
 (See Table II)

Material Designator:  
 A = Aluminum  
 B = Brass  
 C = CRES 316

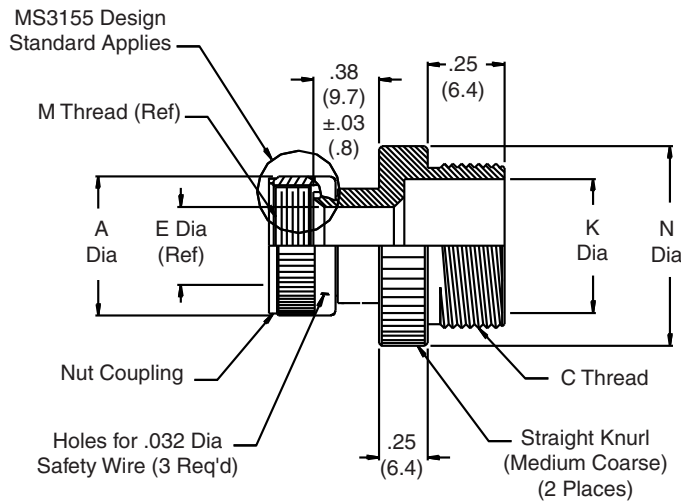
Style Designator



**STYLE 01**  
 FOR USE WHEN E DIAMETER IS  
 GREATER THAN K DIAMETER



**STYLE 02**  
 SAME AS STYLE 01 EXCEPT Y  
 DIMENSION IS LESS THAN J. STYLE  
 02 IS USED WHEN THE EXTRA  
 WORKING ROOM PROVIDED BY  
 DIMENSION J OF STYLE 01 IS NOT A  
 REQUIREMENT.



**STYLE 03**  
 FOR USE WHEN E DIAMETER IS  
 EQUAL TO OR LESS THAN K DIAMETER

# M24758/13 Adapter for Connectors with MS3155 Accessory Interface



**TABLE I**

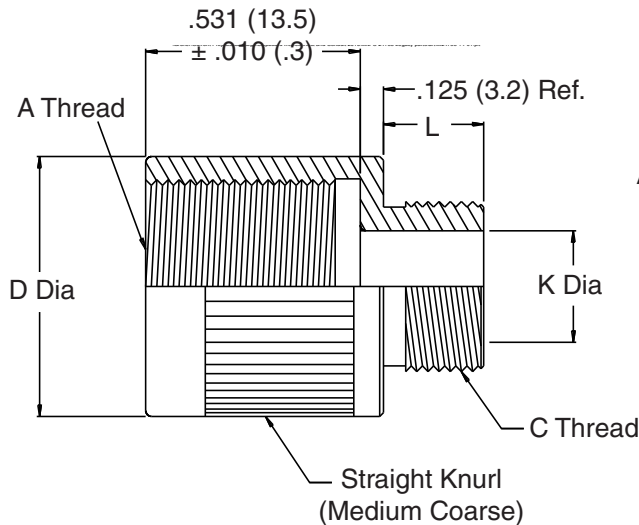
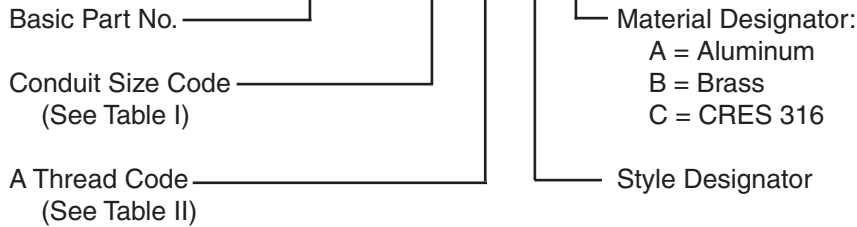
Conduit Size Code	C Thread (Class 2A)	L ±.02 (.5)	K Dia Min.	N Dia ±.02 (.5)
02	0.438 - 28 UNEF	.210 (5.3)	.250 (6.4)	.687 (17.4)
03	0.563 - 24 UNEF	.250 (6.4)	.370 (9.4)	.812 (20.6)
04	0.688 - 24 UNEF	.250 (6.4)	.500 (12.7)	.937 (23.8)
05	0.813 - 20 UNEF	.310 (7.9)	.620 (15.7)	1.062 (27.0)
06	0.938 - 20 UNEF	.310 (7.9)	.750 (19.1)	1.187 (30.1)
08	1.250 - 18 UNEF	.370 (9.4)	1.000 (25.4)	1.500 (38.1)
10	1.563 - 18 UNEF	.370 (9.4)	1.250 (31.8)	1.812 (46.0)
12	1.875 - 16 UN	.430 (10.9)	1.500 (38.1)	2.125 (54.0)
16	2.375 - 16 UN	.430 (10.9)	2.000 (50.8)	2.625 (66.7)
20	2.875 - 16 UN	.430 (10.9)	2.500 (63.5)	3.125 (79.4)
24	3.375 - 16 UN	.430 (10.9)	3.000 (76.2)	3.625 (92.1)

**TABLE II (Connector Dash Numbers & Fitting Dimensions)**

Conn. Dash No.	NAS 1599 & MIL-C-83723 (Series 1 & 3)	MIL-C-5015 (MS3400 Series)	MIL- C-81703 (Navy) (Series 3)	MIL- C-26482 (Series 2)	A Dia. Max.	M Thread (Class 2B) (Ref.) (Note 3)	E Dia. (Ref) Note 3	J (Style 01) ±.03 (.8)	Y (Style 02) ±.03 (.8)
03			03		.669 (17.0)	0.563 - 24 UNEF	.270 (6.9)	1.060 (26.9)	.620 (15.7)
08	08	8SL		08	.617 (15.7)	0.500 - 20 UNF	.270 (6.9)	1.060 (26.9)	.620 (15.7)
10	10	10S, 10SL		10	.734 (18.6)	0.625 - 24 UNEF	.375 (9.5)	1.060 (26.9)	.690 (17.5)
12	12	12, 12S	07	12	.858 (21.8)	0.750 - 20 UNEF	.511 (13.0)	1.060 (26.9)	.690 (17.5)
14	14	14, 14S	12	13	.984 (25.0)	0.875 - 20 UNEF	.585 (14.9)	1.060 (26.9)	.750 (19.1)
16	16	16, 16S	19	16	1.112 (28.2)	1.000 - 20 UNEF	.710 (18.0)	1.060 (26.9)	.750 (19.1)
18	18	18	27	18	1.218 (30.9)	1.062 - 18 UNEF	.789 (20.0)	1.120 (28.4)	.750 (19.1)
20	20	20	37	20	1.345 (34.2)	1.188 - 18 UNEF	.914 (23.2)	1.380 (35.1)	.810 (20.6)
22	22	22		22	1.468 (37.3)	1.312 - 18 UNEF	1.039 (26.4)	1.830 (46.5)	.810 (20.6)
24	24	24		24	1.593 (40.5)	1.438 - 18 UNEF	1.154 (29.3)	1.830 (46.5)	.810 (20.6)
28		28			1.969 (50.0)	1.750 - 18 UNEF	1.389 (35.3)	2.300 (58.4)	.880 (22.4)
32		32			2.219 (56.4)	2.000 - 18 UNS	1.635 (41.5)	2.550 (64.8)	.880 (22.4)
36		36			2.469 (62.7)	2.250 - 16 UN	1.850 (47.0)	2.800 (71.1)	.880 (22.4)
40		40			2.719 (69.1)	2.500 - 16 UN	2.065 (52.5)	3.050 (77.5)	.940 (23.9)
44		44			2.969 (75.4)	2.750 - 16 UN	2.320 (58.9)	3.550 (90.2)	.940 (23.9)
48		48			3.219 (81.8)	3.000 - 16 UN	2.570 (65.3)	3.620 (91.9)	.940 (23.9)
61			61		1.653 (42.0)	1.500 - 18 UNEF	1.194 (30.3)	1.880 (47.8)	.810 (20.6)

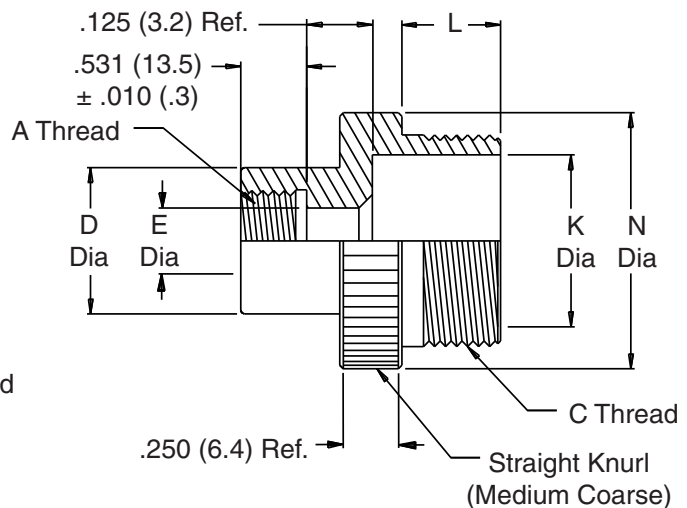
1. The M24758/13 adapter couples connectors listed in Table I to M24758/2, M24758/3 or M24758/4 conduit fittings.
2. The coupling nut end of this adapter shall conform to Military Standard MS3155 (Navy), "Connector, electric, rear accessory design standard". MS3155 takes precedence over this specification.
3. The E diameter and M-thread of this drawing are the same as the E diameter and M-thread of MS3155, and are included for reference purposes.
4. Metric dimensions (mm) are indicated in parentheses.
5. For complete dimensions see applicable Military Specification.

**M24758/14-16-01-01-A**



**STYLE 01**

FOR USE WHEN K DIAMETER IS  
SMALLER THAN E DIAMETER



**STYLE 02**

FOR USE WHEN K DIAMETER  
IS EQUAL TO OR LARGER THAN E DIAMETER

1. The M24758/14 adapter provides a non-environmental coupling between certain MIL-C-28840 (EC) backshells and the M24758/2, M24758/3 or M24758/4 fittings, specifically, the A-thread of this adapter mates with the V-thread of the M28840/6 backshell (straight), the M28840/8 backshell (90°), or the M28840/9 backshell (45°).
2. Metric dimensions (mm) are indicated in parentheses.
3. For complete dimensions see applicable Military Specification.

**M24758/14**  
**Adapter for**  
**MIL-C-28840 (EC) Backshells**



**TABLE I**

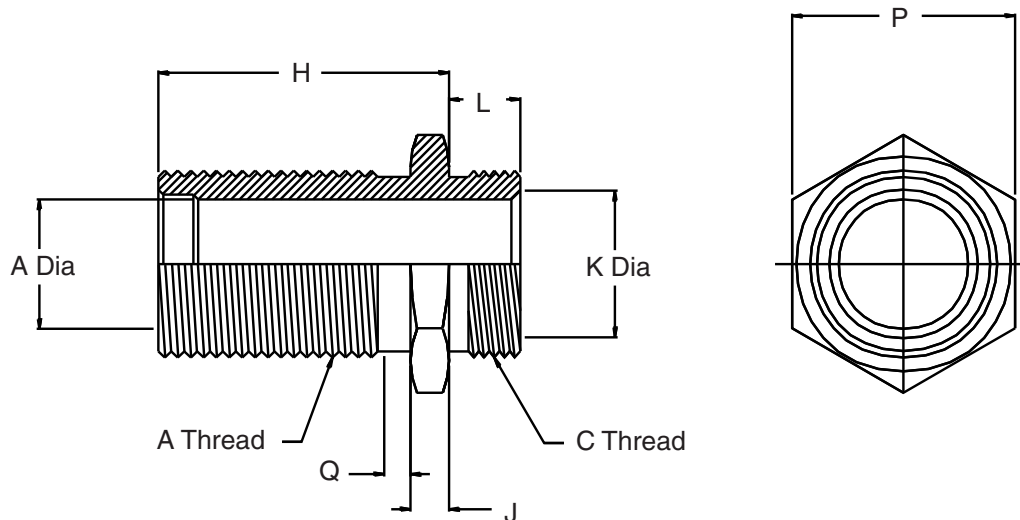
Conduit Size Code	C Thread (Class 2A)	L		K Dia Min.		N Dia	
		±.02	(.5)			±.02	(.5)
02	0.438 - 28 UNEF	.210	(5.3)	.250	(6.4)	.687	(17.4)
03	0.563 - 24 UNEF	.250	(6.4)	.370	(9.4)	.812	(20.6)
04	0.688 - 24 UNEF	.250	(6.4)	.500	(12.7)	.937	(23.8)
05	0.813 - 20 UNEF	.310	(7.9)	.620	(15.7)	1.062	(27.0)
06	0.938 - 20 UNEF	.310	(7.9)	.750	(19.1)	1.187	(30.1)
08	1.250 - 18 UNEF	.370	(9.4)	1.000	(25.4)	1.500	(38.1)
10	1.563 - 18 UNEF	.370	(9.4)	1.250	(31.8)	1.812	(46.0)
12	1.875 - 16 UN	.430	(10.9)	1.500	(38.1)	2.125	(54.0)
16	2.375 - 16 UN	.430	(10.9)	2.000	(50.8)	2.625	(66.7)
20	2.875 - 16 UN	.430	(10.9)	2.500	(63.5)	3.125	(79.4)
24	3.375 - 16 UN	.430	(10.9)	3.000	(76.2)	3.625	(92.1)

**TABLE II (A Thread Code and Adapter Dimensions)**

A Thread Code	Shell Size (Ref.)	A Thread (Class 2B)		D Dia		E Dia	
				±.015	(.4)	±.015	(.4)
01	B, C	0.625 - 24 UNEF		.875	(22.2)	.435	(11.0)
02	B, C	0.750 - 20 UNEF		1.000	(25.4)	.578	(14.7)
03	C	0.875 - 20 UNEF		1.125	(28.6)	.703	(17.9)
04	D, E	1.000 - 20 UNEF		1.250	(31.8)	.828	(21.0)
05	C, D, F	1.188 - 18 UNEF		1.438	(36.5)	1.000	(25.4)
06	D, E, F, G	1.438 - 18 UNEF		1.688	(42.9)	1.250	(31.8)
07	F, G, H	1.750 - 18 UNS		2.000	(50.8)	1.562	(39.7)
08	G, H, J	2.000 - 18 UNS		2.250	(57.2)	1.813	(46.1)
09	J	2.250 - 16 UN		2.250	(57.2)	2.062	(52.4)
10	C, D, E	1.125 - 18 UNEF		1.375	(34.9)	.938	(23.8)
11	C, D, E, F, G	1.250 - 18 UNEF		1.500	(38.1)	1.078	(27.4)
12	D, E, F, G	1.626 - 18 UNEF		1.875	(47.6)	1.438	(36.5)
13	F, G, H	1.875 - 18 UNS		2.125	(54.0)	1.688	(42.9)
14	G, H, J	2.125 - 16 UN		2.375	(60.3)	1.938	(49.2)
15	J	2.750 - 16 UN		3.000	(76.2)	2.563	(65.1)

**M24758/15-B-04-A**

Basic Part No.	_____	Material Designator: A = Aluminum B = Brass C = CRES 316
Stuffing Tube Size Code	_____	
Conduit Size Code	_____	



1. The M24758/15 adapter couples MIL-S-24235/9 through MIL-S-24235/17 stuffing tubes to M24758/2, M24758/3, or M24758/4 fittings.
2. Any combination of conduit and stuffing tube sizes may be used by identifying the appropriate conduit size and stuffing tube size in the part number configuration.
3. Metric dimensions (mm) are indicated in parentheses.
4. For complete dimensions see applicable Military Specification.



**M24758/15**  
**Adapter for MIL-C-24235 Stuffing Tubes**



**TABLE I**

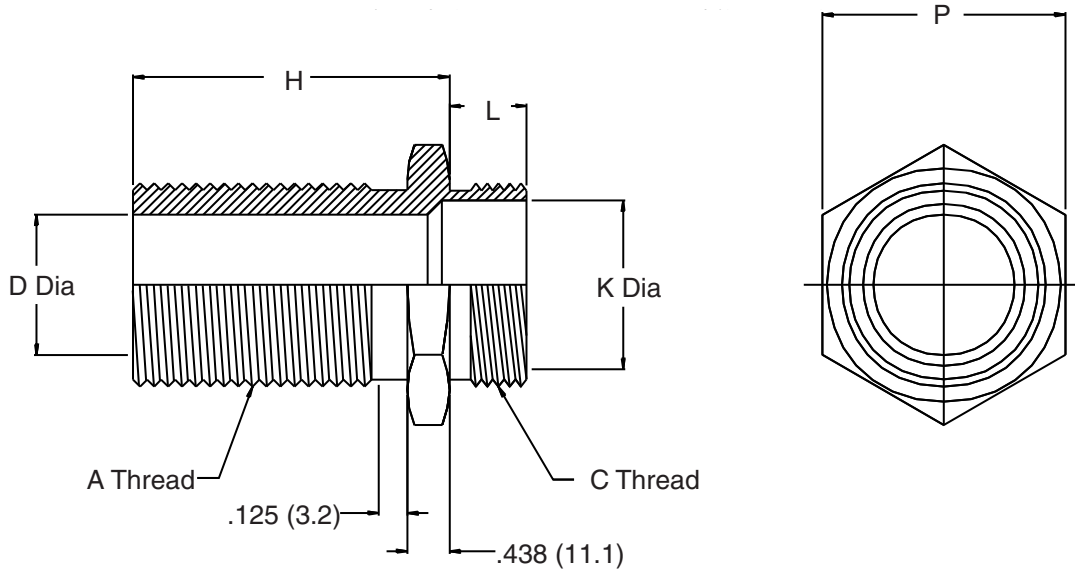
Conduit Size Code	C Thread (Class 2A)	L ±.02	(.5)	K Dia Min.
02	0.438 - 28 UNEF	.210	(5.3)	.250 (6.4)
03	0.563 - 24 UNEF	.250	(6.4)	.370 (9.4)
04	0.688 - 24 UNEF	.250	(6.4)	.500 (12.7)
05	0.813 - 20 UNEF	.310	(7.9)	.620 (15.7)
06	0.938 - 20 UNEF	.310	(7.9)	.750 (19.1)
08	1.250 - 18 UNEF	.370	(9.4)	1.000 (25.4)
10	1.563 - 18 UNEF	.370	(9.4)	1.250 (31.8)
12	1.875 - 16 UN	.430	(10.9)	1.500 (38.1)
16	2.375 - 16 UN	.430	(10.9)	2.000 (50.8)
20	2.875 - 16 UN	.430	(10.9)	2.500 (63.5)
24	3.375 - 16 UN	.430	(10.9)	3.000 (76.2)

**TABLE II**

MIL-S-24235 Stuffing Tube Size	Conduit Size Code	A Thread (Class 2A)	A Dia	H ±.02	(.5)	J ±.02	(.5)	P Dim (Minimum)	Q ±.02	(.5)
A	03	0.875 - 12 UN	.406 (10.3)	1.063	(27.0)	.188	(4.8)	1.031 (26.2)	.188	(4.8)
B	04	1.000 - 12 UN	.515 (13.1)	1.063	(27.0)	.188	(4.8)	1.125 (28.6)	.188	(4.8)
C	04,05,06	1.125 - 12 UN	.640 (16.3)	1.063	(27.0)	.188	(4.8)	1.250 (31.8)	.188	(4.8)
D	06	1.250 - 12 UN	.750 (19.1)	1.063	(27.0)	.188	(4.8)	1.375 (34.9)	.188	(4.8)
E	06	1.250 - 12 UN	.812 (20.6)	1.063	(27.0)	.188	(4.8)	1.375 (34.9)	.188	(4.8)
F	08	1.313 - 12 UN	.843 (21.4)	1.188	(30.2)	.188	(4.8)	1.438 (36.5)	.188	(4.8)
G	08	1.500 - 12 UN	.935 (23.7)	1.188	(30.2)	.188	(4.8)	1.656 (42.1)	.188	(4.8)
J	10	1.625 - 12 UN	1.062 (27.0)	1.188	(30.2)	.188	(4.8)	1.781 (45.2)	.188	(4.8)
K	10	1.750 - 12 UN	1.171 (29.7)	1.500	(38.1)	.188	(4.8)	1.875 (47.6)	.188	(4.8)
L	10	1.813 - 12 UN	1.265 (32.1)	1.500	(38.1)	.188	(4.8)	1.938 (49.2)	.188	(4.8)
M	10,12	2.000 - 12 UN	1.406 (35.7)	1.500	(38.1)	.250	(6.4)	2.188 (55.6)	.188	(4.8)
N	12	2.063 - 12 UN	1.515 (38.5)	1.563	(39.7)	.250	(6.4)	2.250 (57.2)	.188	(4.8)
P	16	2.188 - 12 UN	1.625 (41.3)	1.563	(39.7)	.250	(6.4)	2.344 (59.5)	.188	(4.8)
R	16	2.313 - 12 UN	1.750 (44.5)	1.563	(39.7)	.250	(6.4)	2.469 (62.7)	.188	(4.8)
S	16	2.688 - 12 UN	1.875 (47.6)	2.188	(55.6)	.313	(8.0)	2.813 (71.5)	.250	(6.4)
T	16	2.875 - 12 UN	2.062 (52.4)	2.188	(55.6)	.313	(8.0)	2.969 (75.4)	.250	(6.4)
V	16	3.000 - 12 UN	2.187 (55.5)	2.188	(55.6)	.313	(8.0)	3.094 (78.6)	.250	(6.4)
W	16,20	3.125 - 12 UN	2.312 (58.7)	2.188	(55.6)	.313	(8.0)	3.281 (83.3)	.250	(6.4)
X	20	3.250 - 12 UN	2.500 (63.5)	2.188	(55.6)	.313	(8.0)	3.438 (87.3)	.250	(6.4)
Y	20	3.375 - 12 UN	2.609 (66.3)	2.188	(55.6)	.313	(8.0)	3.563 (90.5)	.250	(6.4)
Z	20	3.563 - 12 UN	2.781 (70.6)	2.188	(55.6)	.313	(8.0)	3.750 (95.3)	.250	(6.4)
AA	20,24	3.750 - 12 UN	2.875 (73.0)	3.125	(79.4)	.438	(11.1)	3.875 (98.4)	.250	(6.4)
BB	24	4.000 - 12 UN	3.157 (80.2)	3.125	(79.4)	.438	(11.1)	4.125 (104.8)	.250	(6.4)

### M24758/16-16-04-A

<p>Basic Part No. _____</p> <p>Conduit Size Code _____ (See Table I)</p> <p>A-Thread Code _____ (See Table II)</p>	<p>Material Designator: A = Aluminum B = Brass C = CRES 316</p>
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1. The M24758/16 adapter couples miscellaneous fittings to M24758/2, M24758/3, or M24758/4 fittings.
2. The American National Thread Series (N) has been superseded by the Unified Thread Series (UN). The series N-thread sizes listed in table II are retained for use with those items which have series N-threads.
3. Metric dimensions (mm) are indicated in parentheses.
4. For complete dimensions see applicable Military Specification.

**M24758/16**  
**Adapter for Miscellaneous Fittings**



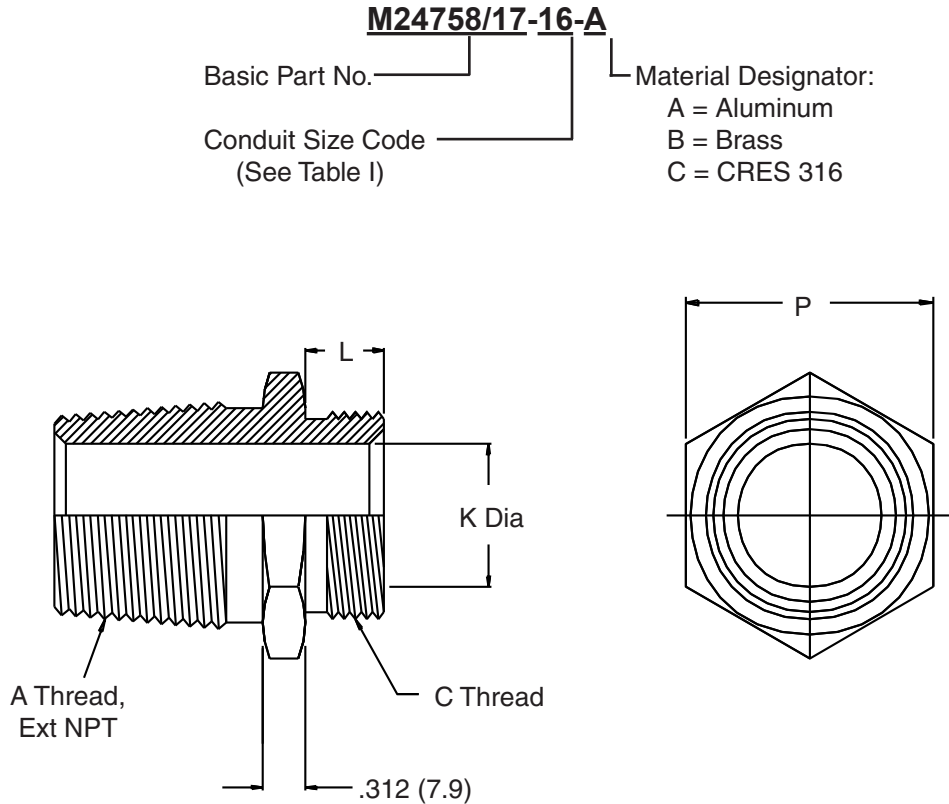
**TABLE I**

Conduit Size Code	C Thread (Class 2A)	L ±.02 (.5)	K Dia Min.
02	0.438 - 28 UNEF	.210 (5.3)	.250 (6.4)
03	0.563 - 24 UNEF	.250 (6.4)	.370 (9.4)
04	0.688 - 24 UNEF	.250 (6.4)	.500 (12.7)
05	0.813 - 20 UNEF	.310 (7.9)	.620 (15.7)
06	0.938 - 20 UNEF	.310 (7.9)	.750 (19.1)
08	1.250 - 18 UNEF	.370 (9.4)	1.000 (25.4)
10	1.563 - 18 UNEF	.370 (9.4)	1.250 (31.8)
12	1.875 - 16 UN	.430 (10.9)	1.500 (38.1)
16	2.375 - 16 UN	.430 (10.9)	2.000 (50.8)
20	2.875 - 16 UN	.430 (10.9)	2.500 (63.5)
24	3.375 - 16 UN	.430 (10.9)	3.000 (76.2)

**TABLE II (A Thread Code and Adapter Dimensions)**

A Thread Code	A Thread (Class 2A)	D Dia ±.005 (.4)	H Dim. ±.02 (.5)	p Dim. Min.
01	1.125 - 14 N	.500 (12.7)	1.250 (31.8)	1.250 (31.8)
03	1.288 - 14N	.750 (19.1)	1.250 (31.8)	1.430 (36.3)
04	0.750 - 14 NPSM	.750 (19.1)	1.250 (31.8)	1.370 (34.8)
06	1.000 - 11 1/2 NPSM	1.000 (25.4)	1.250 (31.8)	1.680 (42.7)
07	1.250 - 11 1/2 NPSM	1.000 (25.4)	1.250 (31.8)	1.810 (46.0)
09	1.250 - 11 1/2 NPSM	1.180 (30.0)	1.250 (31.8)	1.810 (46.0)
10	2.025 - 11 1/2 N	1.250 (31.8)	1.560 (39.6)	2.180 (55.4)
13	2.250 - 11 1/2 N	1.500 (38.1)	1.690 (42.9)	2.500 (63.5)
16	2.500 - 8 NPSM	2.000 (50.8)	2.000 (50.8)	3.000 (76.2)
19	3.000 - 8 NPSM	2.500 (63.5)	2.060 (52.3)	3.620 (91.9)
20	1.500 - 11 1/2 NPSM	1.500 (38.1)	1.250 (31.8)	2.500 (63.5)
21	2.000 - 11 1/2 NPSM	2.000 (50.8)	1.250 (31.8)	3.000 (76.2)

## M24758/17 Adapter for Tapered Pipe Thread



**TABLE I**

Conduit Size Code	A Thread	P Dia (Minimum)	C Thread (Class 2A)	L		K Dia Min.
				±.02	(.5)	
02	0.250 - 18.00 NPT	.690 (17.5)	0.438 - 28 UNEF	.210	(5.3)	.250 (6.4)
03	0.375 - 18.00 NPT	.810 (20.6)	0.563 - 24 UNEF	.250	(6.4)	.370 (9.4)
04	0.500 - 14.00 NPT	1.000 (25.4)	0.688 - 24 UNEF	.250	(6.4)	.500 (12.7)
05	0.750 - 14.00 NPT	1.180 (30.0)	0.813 - 20 UNEF	.310	(7.9)	.620 (15.7)
06	0.750 - 14.00 NPT	1.180 (30.0)	0.938 - 20 UNEF	.310	(7.9)	.750 (19.1)
08	1.000 - 11.50 NPT	1.500 (38.1)	1.250 - 18 UNEF	.370	(9.4)	1.000 (25.4)
10	1.250 - 11.50 NPT	1.810 (46.0)	1.563 - 18 UNEF	.370	(9.4)	1.250 (31.8)
12	1.500 - 11.50 NPT	2.120 (53.8)	1.875 - 16 UN	.430	(10.9)	1.500 (38.1)
16	2.000 - 11.50 NPT	2.620 (66.5)	2.375 - 16 UN	.430	(10.9)	2.000 (50.8)
20	2.500 - 8.00 NPT	3.000 (76.2)	2.875 - 16 UN	.430	(10.9)	2.500 (63.5)
24	3.000 - 8.00 NPT	3.620 (91.9)	3.375 - 16 UN	.430	(10.9)	3.000 (76.2)

1. The M24758/17 adapter couples any fittings having a female tapered pipe thread to M24758/2, M24758/3, or M24758/4 fittings.
2. Metric dimensions (mm) are indicated in parentheses.
3. For complete dimensions see applicable Military Specification.

# M24758/18 Adapter for Straight Pipe Thread



Conduit  
Systems

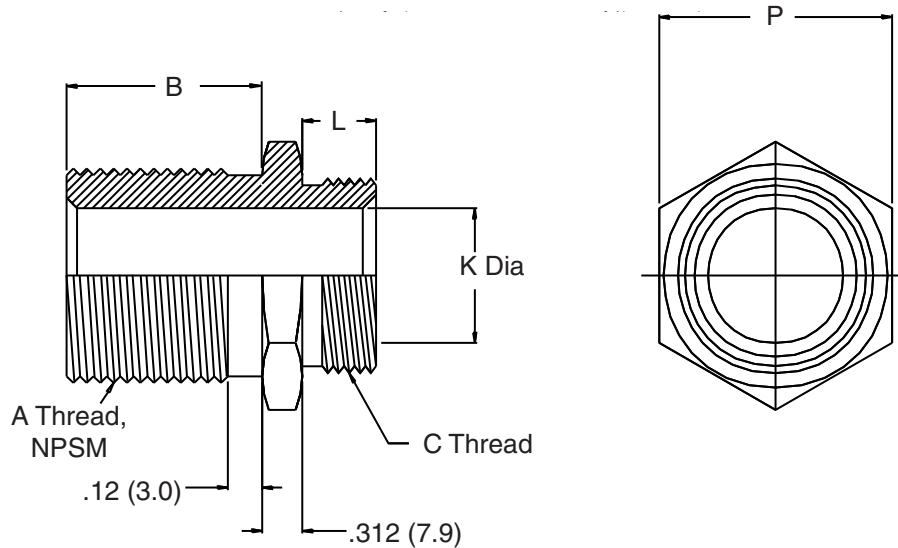
## M24758/18-16-A

Basic Part No.

Conduit Size Code  
(See Table I)

Material Designator:

- A = Aluminum
- B = Brass
- C = CRES 316



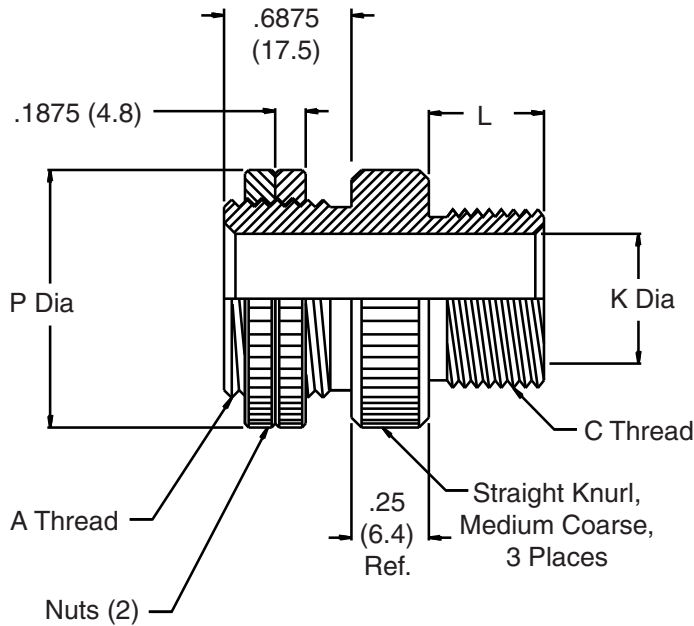
**TABLE I**

Conduit Size Code	A Pipe Thread	B Dim.		P Dia (Minimum)	C Thread (Class 2A)	L		K Dia Min.		
		±.02	(.5)			±.02	(.5)			
02	0.250 - 18.00 NPSM	.750	(19.1)	.690	(17.5)	0.438 - 28 UNEF	.210	(5.3)	.250	(6.4)
03	0.375 - 18.00 NPSM	.750	(19.1)	.810	(20.6)	0.563 - 24 UNEF	.250	(6.4)	.370	(9.4)
04	0.500 - 14.00 NPSM	.870	(22.1)	1.000	(25.4)	0.688 - 24 UNEF	.250	(6.4)	.500	(12.7)
05	0.750 - 14.00 NPSM	.870	(22.1)	1.180	(30.0)	0.813 - 20 UNEF	.310	(7.9)	.620	(15.7)
06	0.750 - 14.00 NPSM	.870	(22.1)	1.180	(30.0)	0.938 - 20 UNEF	.310	(7.9)	.750	(19.1)
08	1.000 - 11.50 NPSM	.870	(22.1)	1.500	(38.1)	1.250 - 18 UNEF	.370	(9.4)	1.000	(25.4)
10	1.250 - 11.50 NPSM	.870	(22.1)	1.810	(46.0)	1.563 - 18 UNEF	.370	(9.4)	1.250	(31.8)
12	1.500 - 11.50 NPSM	1.000	(25.4)	2.120	(53.8)	1.875 - 16 UN	.430	(10.9)	1.500	(38.1)
16	2.000 - 11.50 NPSM	1.190	(30.2)	2.620	(66.5)	2.375 - 16 UN	.430	(10.9)	2.000	(50.8)
20	2.500 - 8.00 NPSM	1.620	(41.1)	3.000	(76.2)	2.875 - 16 UN	.430	(10.9)	2.500	(63.5)
24	3.000 - 8.00 NPSM	1.690	(42.9)	3.620	(91.9)	3.375 - 16 UN	.430	(10.9)	3.000	(76.2)

1. The M24758/18 adapter couples any fittings having a female straight pipe thread to M24758/2, M24758/3, or M24758/4 fittings.
2. Metric dimensions (mm) are indicated in parentheses.
3. For complete dimensions see applicable Military Specification.

### M24758/19-16-A

Basic Part No. \_\_\_\_\_ Material Designator:  
 Conduit Size Code \_\_\_\_\_ A = Aluminum  
 (See Table I) B = Brass  
 C = CRES 316



**TABLE I**

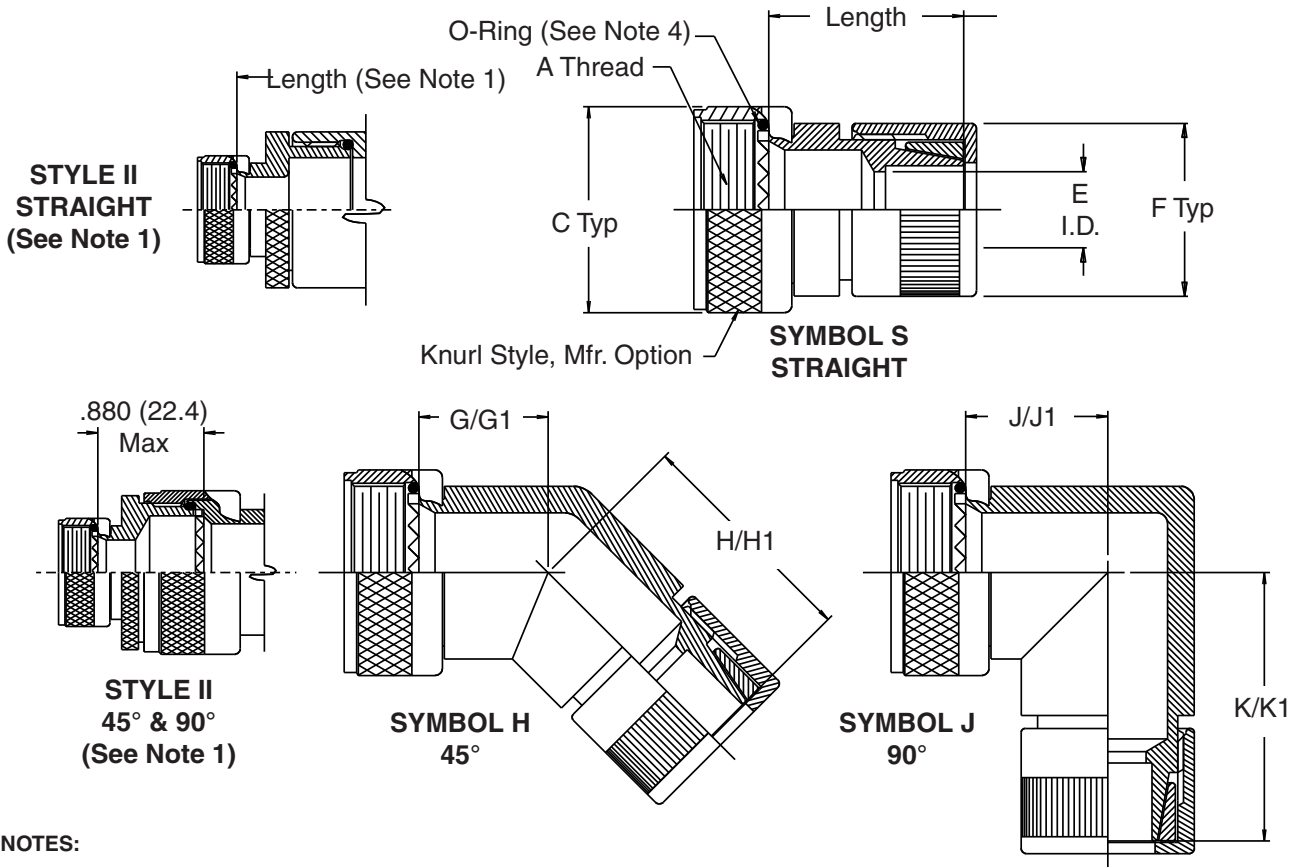
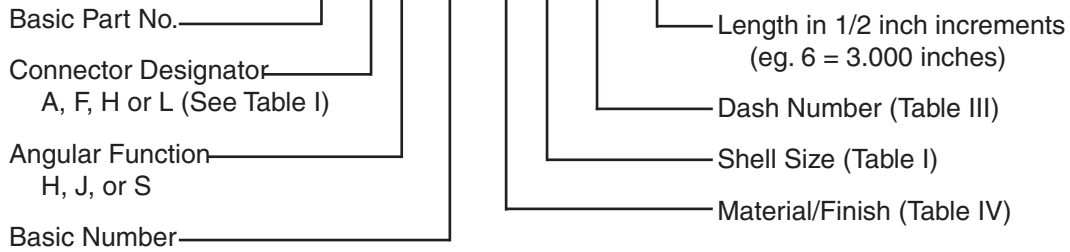
Conduit Size Code	A Thread (Class 2A)	P Dia Min.	C Thread (Class 2A)	L ±.02 (.5)	K Dia Min.
02	0.625 - 24 UNEF	.870 (22.1)	0.438 - 28 UNEF	.210 (5.3)	.250 (6.4)
03	0.750 - 20 UNEF	1.000 (25.4)	0.563 - 24 UNEF	.250 (6.4)	.370 (9.4)
04	0.875 - 20 UNEF	1.120 (28.4)	0.688 - 24 UNEF	.250 (6.4)	.500 (12.7)
05	1.000 - 20 UNEF	1.250 (31.8)	0.813 - 20 UNEF	.310 (7.9)	.620 (15.7)
06	1.188 - 18 UNEF	1.430 (36.3)	0.938 - 20 UNEF	.310 (7.9)	.750 (19.1)
08	1.438 - 18 UNEF	1.680 (42.7)	1.250 - 18 UNEF	.370 (9.4)	1.000 (25.4)
10	1.750 - 16 UN	2.000 (50.8)	1.563 - 18 UNEF	.370 (9.4)	1.250 (31.8)
12	2.000 - 16 UN	2.250 (57.2)	1.875 - 16 UN	.430 (10.9)	1.500 (38.1)
16	2.500 - 16 UN	3.000 (76.2)	2.375 - 16 UN	.430 (10.9)	2.000 (50.8)
20	3.000 - 16 UN	3.500 (88.9)	2.875 - 16 UN	.430 (10.9)	2.500 (63.5)
24	3.500 - 16 UN	4.000 (101.6)	3.375 - 16 UN	.430 (10.9)	3.000 (76.2)

1. The M24758/19 adapter provides the capability of terminating a M24758/2, M24758/3, or M24758/4 fitting to a panel.
2. Metric dimensions (mm) are indicated in parentheses.
3. For complete dimensions see applicable Military Specification.

Glenair is also qualified for the following  
GR2000 and RP2000 series fittings. Consult  
factory for drawings and specifications.

<b>NAVSEA HANDBOOK S9407-AB-HBK-010</b>	<b>NAVSEA HANDBOOK 0967-LP-283-5010</b>
GR2120-X-XX-EMXX-XX	GR2120-X-X-X-XXSN
GR2121-XXSM	GR2121-XXSN
GR2122-XXXSM (Style A)	GR2122-XXXSN (Style A)
GR2122-XXXESM (Style B)	GR2122-XXXESN (Style B)
GR2123-X-XX-EMXX	GR2123-X-X-XXSN
GR2124-X-EMXX-XX	GR2124-X-X-XXSN
GR2125-X-EMXX-XX	GR2125-X-X-XXSN
GR2126-EMXX	GR2126-XX
GR2127-EMXX	GR2127-XX
GR2128-EMXX	GR2128-XXSM
GR2129-EMXX	GR2129-XX
RP2100-EMXX-T(S) Telescoping/Short	RP2100-GXX-T(S)
RP2110-EMXX-T(S) Telescoping/Short	RP2110-GXX-T(S)
RP2120-EMXX-T(S) Telescoping/Short	RP2120-GXX-T(S)
RP2130-EMXX	RP2130-GXX
RP2140-EMXX	RP2140-GXX
RP2141-EMXX	RP2141-GXX
RP2200-EMXX	RP2200-GXX
RP2210-EMXX	RP2210-GXX
RP2311-XX-XX-XXSM	RP2311-XX-XX-XXSN
RP2321-XX-XXSM	RP2321-XX-XXSN
RP2330-XX-XX-N (No Letter Steel) SM	RP2330-XX-XX-N (No Letter Steel) SN
RP2340-XX-XX-XXSM	RP2340-XX-XX-XXSN
RP2350-XX-XX-XX-XSM	RP2350-XX-XX-XX-XSN
RP2360-XX-XX-XXSM	RP2360-XX-XX-XXSN
RP2400-XX-XXSM	RP2400-XX-XXSN
RP2411-XX-XXSM	RP2411-XX-XXSN
RP2420-XX-XXSM	RP2420-XX-XXSN
RP2430-XXSM	RP2430-XXSN
RP2431-XXSM	RP2431-XXSN
RP2440-XXSM	RP2440-XXSN
RP2500-XXSM	RP2500-XXSN
RP2610-XXSM	RP2610-XXSN
RP2620-XXSM	RP2620-XXSN
SM = Electroless Nickel Plating/Mild Steel	SN = Cadmium over Electroless Nickel/Mild Steel

**712 A S 229 M 16 12 - 6**



**NOTES:**

1. Conduit-to-Connector Fittings are available for all connectors listed in the Connector Designator Reference Table (Table II). Please consult factory for drawings of connectors not covered by connector designators A, F, L and H.
2. Conduit-to-Connector Fittings are also available with split backshells. Split backshell designs enable the user to ground both the cable shields and the conduit. Please consult factory for drawings.
3. When conduit diameter exceeds maximum dash number (Table I), Style II will be supplied. Standard length: Style I = 2.000 (50.8), Style II = 2.500 (63.5).
4. O-Ring not supplied with Connector Designator A.
5. Metric dimensions (mm) are indicated in parentheses.

**TABLE IV: MATERIAL AND FINISH**

Symbol	Material	Finish
NF	Aluminum Alloy	Cadmium Olive Drab over Electroless Nickel (500-Hour Salt Spray)
BN	Brass	
Z1	300 Series Stainless Steel	Passivate
M	Aluminum Alloy	Electroless Nickel
SN	B1113 Mild Steel	Cadmium Olive Drab over Electroless Nickel (500-Hour salt Spray)
BO	Brass	Unplated



**TABLE I**

Shell Size A, F, L	H	Max Dash No. (Table II)	G Max	H Max	J Max	K Max
08	09	02	.639 (16.2)	1.700 (43.2)	.750 (19.1)	1.810 (46.0)
10/11	11	03	.654 (16.6)	1.730 (43.9)	.810 (20.6)	1.870 (47.5)
12/13	13	04	.688 (17.5)	1.750 (44.5)	.870 (22.1)	1.930 (49.0)
14/15	15	05	.705 (17.9)	1.780 (45.2)	.920 (23.4)	2.000 (50.8)
16/17	17	06	.732 (18.6)	1.800 (45.7)	.980 (24.9)	2.060 (52.3)
18	19	06	.748 (19.0)	1.810 (46.0)	1.020 (25.9)	2.080 (52.8)
20	21	08	.773 (19.6)	2.020 (51.3)	1.080 (27.4)	2.390 (60.7)
22	23	08	.800 (20.3)	2.060 (52.3)	1.140 (29.0)	2.470 (62.7)
24	25	10	.823 (20.9)	2.090 (53.1)	1.200 (30.5)	2.540 (64.5)
28		10	1.041 (26.4)	2.320 (58.9)	1.480 (37.6)	2.780 (70.6)
32		12	1.092 (27.7)	2.360 (59.9)	1.610 (40.9)	2.870 (72.9)
36		12	1.138 (28.9)	2.410 (61.2)	1.720 (43.7)	2.960 (68.3)
40		20	1.184 (30.1)	2.450 (62.2)	1.830 (46.5)	3.070 (78.0)
44		20	1.235 (31.4)	2.500 (63.5)	1.950 (49.5)	3.200 (81.3)
48		20	1.287 (32.7)	2.550 (64.8)	2.080 (52.8)	3.320 (84.3)
61		08	1.003 (25.5)	2.270 (57.7)	1.390 (35.3)	2.380 (60.5)

**TABLE III**

Dash Number	E I. D.	F Max	G1 Max	H1 Max	J1 Max	K1 Max
02	.250 (6.4)	1.160 (29.5)	N/A	N/A	N/A	N/A
03	.375 (9.5)	1.280 (32.5)	.654 (16.6)	1.730 (43.9)	.810 (20.6)	1.870 (47.5)
04	.500 (12.7)	1.400 (35.6)	.688 (17.5)	1.750 (44.5)	.870 (22.1)	1.930 (49.0)
05	.625 (15.9)	1.590 (40.4)	.705 (17.9)	1.780 (45.2)	.920 (23.4)	2.000 (50.8)
06	.750 (19.1)	1.780 (45.2)	.732 (18.6)	2.800 (71.1)	.980 (24.9)	2.060 (52.3)
08	1.000 (25.4)	1.960 (49.8)	.773 (19.6)	2.020 (51.3)	1.080 (27.4)	2.390 (60.7)
10	1.250 (19.6)	2.280 (57.9)	.823 (20.9)	2.090 (53.1)	1.200 (30.5)	2.540 (64.5)
12	1.500 (31.8)	2.660 (67.6)	1.041 (26.4)	2.360 (59.9)	1.480 (37.6)	2.870 (72.9)
16	2.000 (50.8)	3.160 (80.3)	1.092 (27.7)	2.450 (62.2)	1.610 (40.9)	3.070 (78.0)
20	2.500 (63.5)	3.860 (98.0)	1.190 (30.2)	2.550 (64.8)	1.860 (47.2)	3.320 (84.3)
24	3.000 (76.2)	4.380 (111.3)	1.250 (31.8)	2.610 (66.3)	1.990 (50.4)	3.450 (87.6)

**TABLE II**

Connector Specification	Connector Specification	Connector Series	Connector Specification	Connector Specification	Connector Series	Connector Specification	Connector Specification	Connector Series
A	MIL-C-5015	MS3400	D	MIL-C-26482	I	J	MIL-C-81511	I & II
	MIL-C-26482		E	MIL-C-26500			ALUM	
	MIL-C-81073	I & III	F	MIL-DTL-38999	I & II	K	MIL-C-83723	II
	MIL-C-83723			40M38277			NFC 93422	
C	DEF 5326-3	HE302	G	MIL-C-28840	HE 309	L	PAN 6433-1	PATT 615
	LN 29504						PAN 6433-2	VG 96912
	NFC 93422						PATT 614	
	PAN 6432-1					S	PATT 105	
	PAN 6432-2						PATT 603	
	PATT 602						PATT 608	
			H	MIL-DTL-38999	III & IV			

Metric dimensions (mm) are indicated in parentheses.

It's cold. It's wet.  
It's out in the middle of nowhere.



## Just the kind of place for Glenair's Conduit, Connectors and Cables.

**D**esigned for use in oceanographic, geophysical, naval and other severe environments, Glenair's line of shipboard interconnect products withstand exposure to extreme temperatures and corrosives. Our shipboard products have been used in surface and submarine

naval applications as well as offshore oil drilling, seabed exploration, and pipeline inspection systems. The products are available as discrete components or as engineered assemblies and interconnect systems.

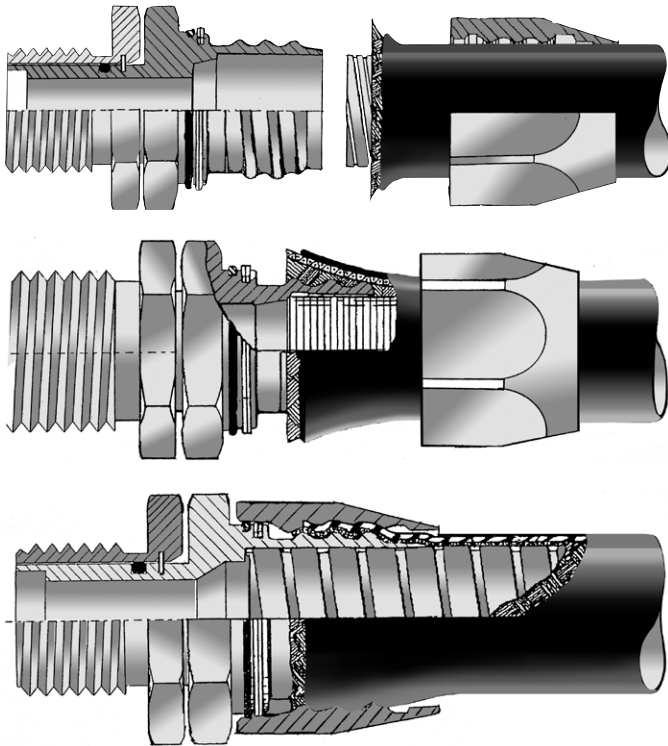


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## Swivel Design, Self-Locking Couplings, Environmental Sealing—Truly the *FIRST* and Last Conduit System You'll Ever Need



- Broad Spectrum RFI/EMI/EMP Shielding
- Interchangeability with Entraco\*
- Reduced Radar Cross section
- Easy Installation and Repair
- Low-Smoke Zero Halogen Jacketing
- 360° Grounding Swivel Design
- Self-Coupling Adapters with Wave-Form Anti-Decoupling Springs

The Glenair Field Installable and Repairable Shipboard Termination (*FIRST*) Conduit System consists of easily installed, two-piece conduit fittings and Glenair's Series 75 metal core conduit (750-145 and 750-147).

The *FIRST* System provides optimized shielding, extreme environment sealing, and corrosion protection. The self-locking coupling system, with its front swivel and rear coupling nut wave-form spring, ensures continued protection even under conditions of severe

shock, vibration and cable torque. No other system on the market is easier to install or repair, and no special tools are required. Installation time is greatly reduced, and service life is increased.

Body configurations are available in straight, 45° and 90°. The selection of end-fittings and adapters support all military standard connectors, bulkhead feed-throughs, branching hardware, pipe threads and stuffing tubes.

\* ENTRACO is a trademark of Icore Int'l, Inc., a part of Smiths Industries

Test Requirements	Test Method	Testing Performed By	Test Samples
Interchangeability	Glenair will use the same metal core, braids and jacket as Entraco* to insure interchangeability. A sample of an Entraco* fitting mated with Glenair conduit and visa versa will be subjected to Shielding effectiveness and Transfer Impedence Testing.	Glenair Quality Assurance and Elite Electronics Engineering	Entraco* Conduit with Glenair Fittings, Glenair Conduit with Entraco* Fittings
Sulfur Dioxide Salt Fog	ASTM B 117 with sulfur dioxide gas, 28 Days for 316L Fittings, 200 Hours for Plated Aluminum Fittings. Shielding Effectiveness Testing will be repeated after Sulfur Dioxide Salt Fog.	National Technical Systems Fullerton, California	Glenair Conduit with Pipe Thread Fittings
Salt Spray Test	Aluminum Parts: MIL-STD-1344 for 2,000 Hours.	National Testing Systems Fullerton, California	Glenair Conduit and Pipe Thread fittings
Shielding Effectiveness	MIL-STD-1344, Method 3008, Frequency Range 100 MHz - 10 GHz; 58 dB minimum.	Elite Electronics Engineering Chicago, Illinois	Glenair Conduit with Pipe thread Fittings, Entraco* Conduit with Glenair Fittings, Glenair Conduit with Entraco* Fittings
Surface Transfer Impedence Test	MIL-C-24758 Frequency Range 1 kHz - 100 MHz.	National Technical Systems Fullerton, California	Glenair Conduit with Pipe thread Fittings, Entraco* Conduit with Glenair Fittings, Glenair Conduit with Entraco* Fittings
Core Grounded to End Fitting	When assembled, the core must be grounded to the end fitting and captured by a groove to prevent chafing. Visual Inspection.	Glenair Quality Assurance	Glenair Conduit with Pipe Thread Fittings
360 Degree Grounding of Swivel	Visual Inspection.	Glenair Quality Assurance	Glenair Conduit with Pipe thread Fittings

\* ENTRACO is a trademark of Icore Int'l, Inc., a part of Smiths Industries

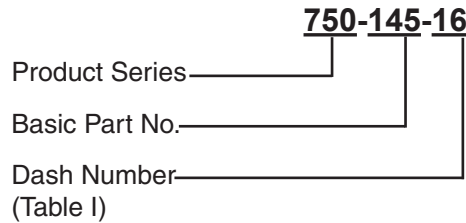
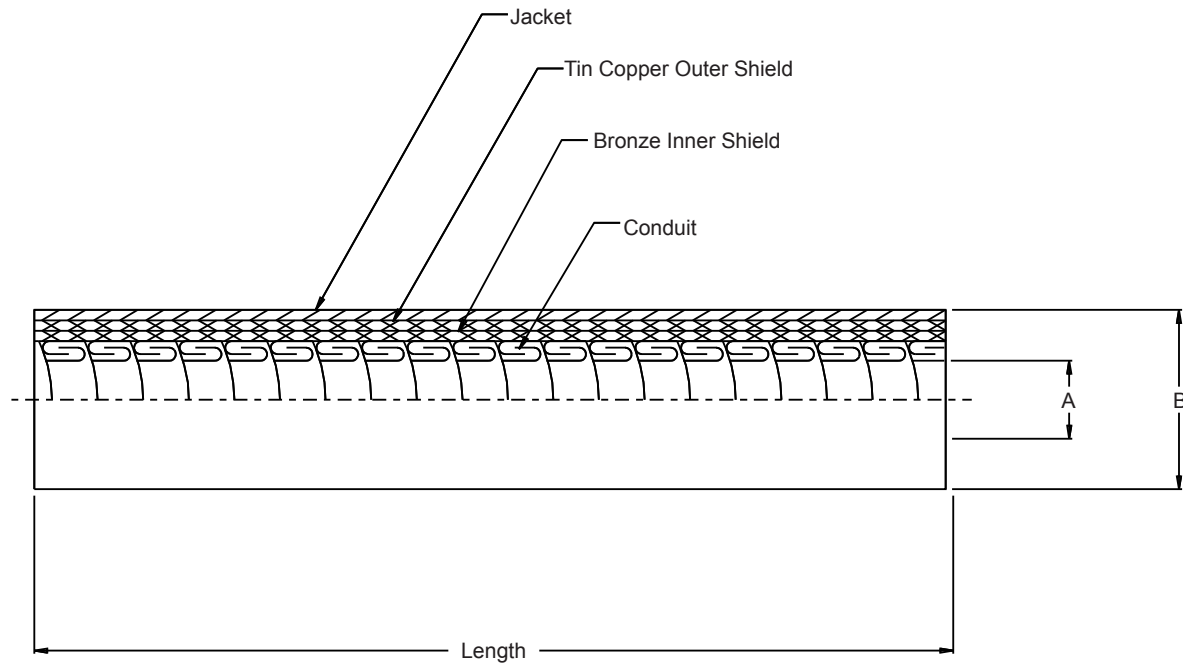
**Glenair *FIRST* Fittings and Adapters  
for Series 75 Metal-Core Conduit (750-145 & 750-147)  
Entraco Cross Reference**



**Glenair and Entraco\* *FIRST*/SEA FROST Cross Reference**  
(Note: Both systems use the same Dimensions—which is the Key to Interchangability)

General Features	Glenair “FIRST”	Entraco* “SEA FROST”
Glenair/Entraco* Interchangability	Yes	Yes
Superior EMI/EMP Shielding	Yes	Yes
Superior Environmental Sealing	Yes	Yes
Superior Corrosion Protection	Yes	Yes
Easily Installed and repaired	Yes	Yes
Reduced Installation Cost	Yes	Yes
Self-Locking Coupling System	Yes	Yes
Two-Piece Design with Swivel	Yes	Yes
<b>Detailed Design Features</b>		
<b>(1) Fitting Materials:</b>		
316 Cres	Yes	Yes
Nickel/Teflon Plated Aluminum	Yes	Yes
Zinc/Nickel Plated Aluminum	Yes	—
<b>(2) Continuous Conduit Length (50’ - 200’ Lengths) Less scrap/Cost savings</b>	Yes	No (Random Lengths)
<b>(3) Grounded Swivel Design</b>	Yes	Yes
<b>(4) Grounded Outer Shield (Braid)</b>	Yes	Yes
<b>(5) Grounded Inner Core</b>	Yes	Yes
<b>(6) Environmental Jacket Material</b>		
Black Neoprene	Yes	Yes
Gray EPDM	Yes	Yes
<b>(7) Brass Core Material</b>	Yes	Yes
<b>(8) Braid materials</b>		
28 ga Bronze Phosphorus	Yes	Yes
34 ga Tin Copper	Yes	Yes
<b>(9) Self-Locking Mechanism</b>	Yes	Yes
<b>(10) Complete Environmental sealing</b>		
Rear Jacket seal	Yes	Yes
Swivel O-Ring Seal	Yes	Yes
Lock Mechanism O-Ring Seal	Yes	Yes

\* ENTRACO is a trademark of Icore Int'l, Inc., a part of Smiths Industries

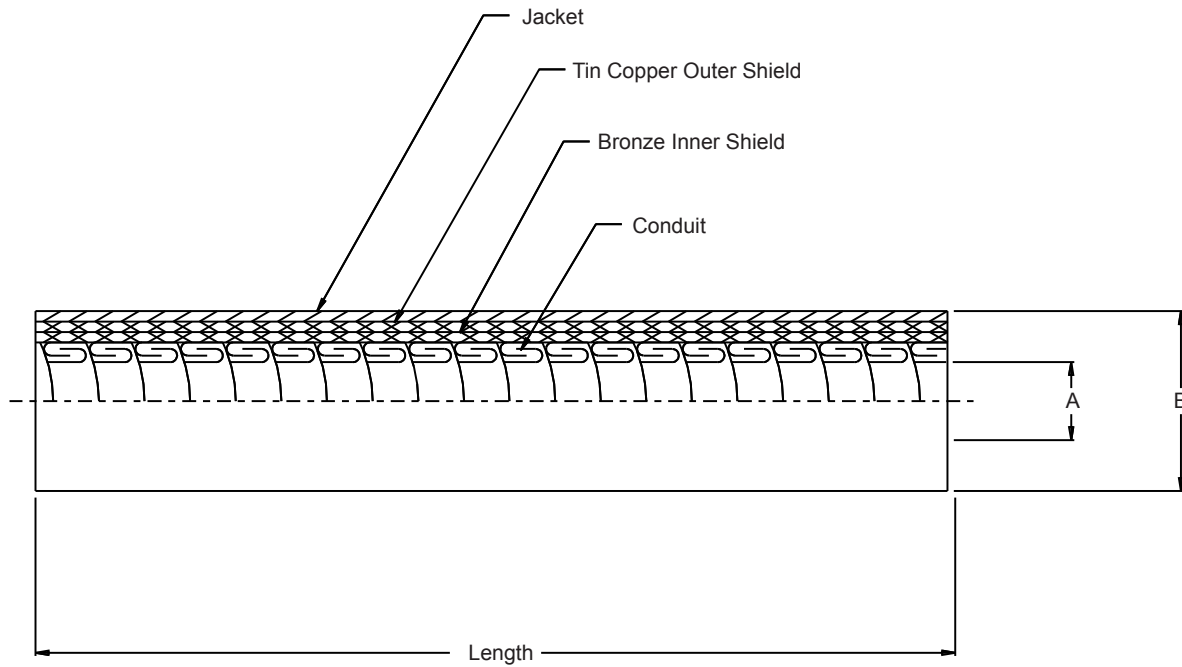


Dash Number	A Dia Min	B Dia Min	Min Bend Radius
16	.485 (12.3)	.867 (22.0)	2.250 (57.2)
24	.735 (18.7)	1.100 (27.9)	2.250 (57.2)
32	.985 (25.0)	1.450 (36.8)	3.750 (95.3)
40	1.235 (31.4)	1.677 (42.6)	4.750 (120.7)
48	1.485 (37.7)	1.960 (49.8)	5.500 (139.7)

Sizes from .250 (6.4) to 3.00 (76.2) are available upon request

Metric Dimensions (mm) are indicated in parentheses.

**750-147**  
**Series 75 EMI/RFI Shielded Metal-Core Conduit**  
 Grey Neoprene Jacketed for *FIRST* Adapters and Fittings

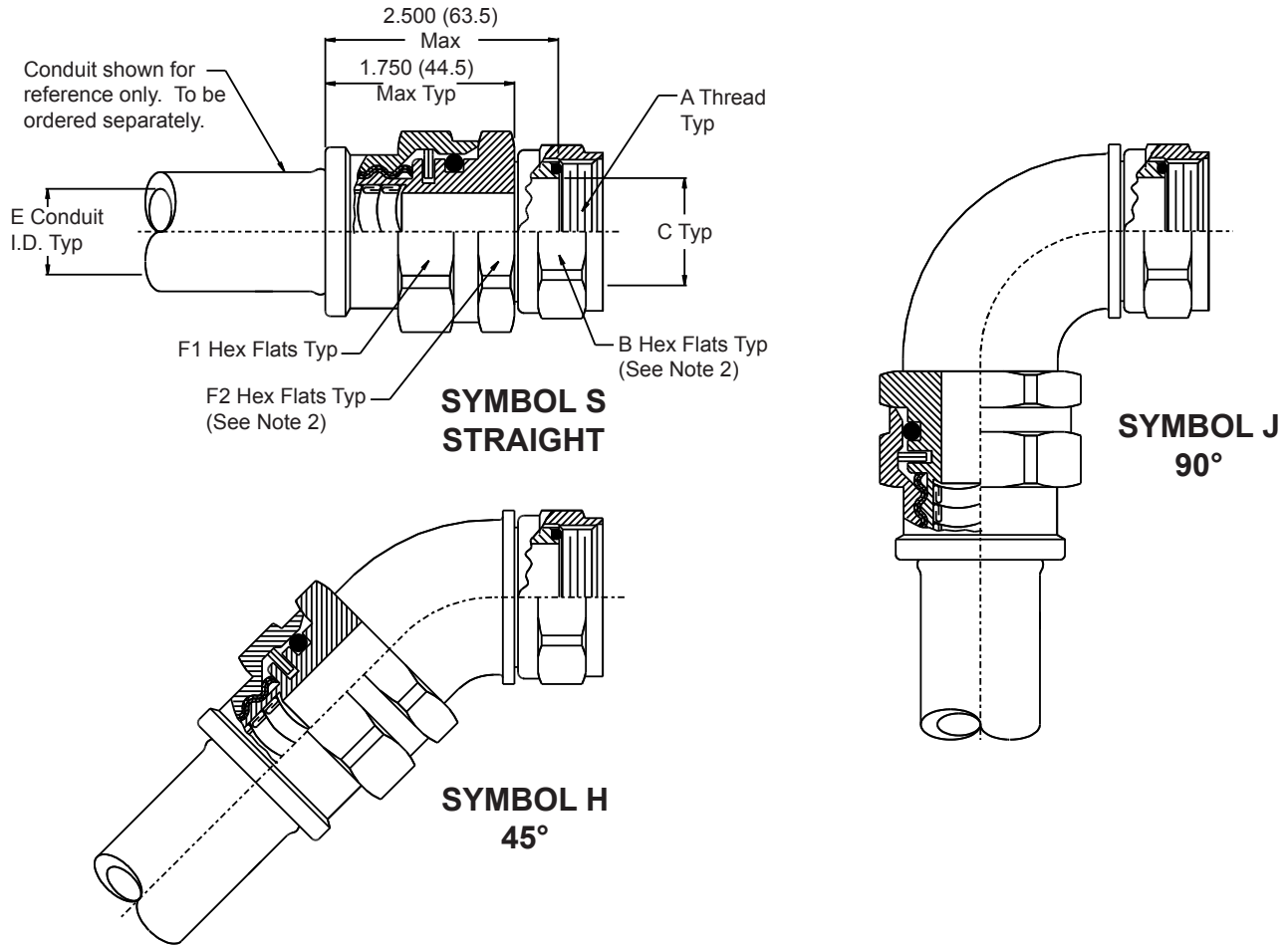


**750-147-16**  
 Product Series  
 Basic Part No.  
 Dash Number  
 (Table I)

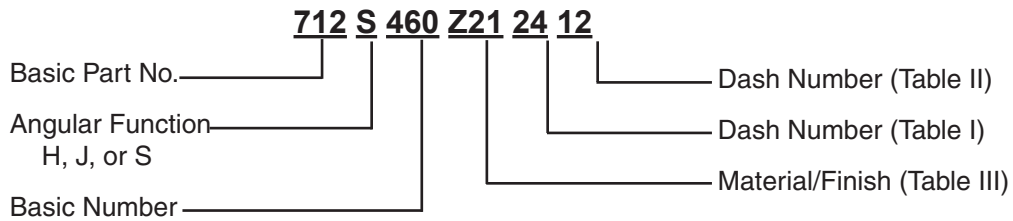
TABLE I			
Dash Number	A Dia Min	B Dia Min	Min Bend Radius
16	.485 (12.3)	.867 (22.0)	2.250 (57.2)
24	.735 (18.7)	1.100 (27.9)	2.250 (57.2)
32	.985 (25.0)	1.450 (36.8)	3.750 (95.3)
40	1.235 (31.4)	1.677 (42.6)	4.750 (120.7)
48	1.485 (37.7)	1.960 (49.8)	5.500 (139.7)

Sizes from .250 (6.4) to 3.00 (76.2) are available upon request

Metric Dimensions (mm) are indicated in parentheses.



1 of 1



**NOTES:**

1. For Thread (Table I) or Conduit (Table II) sizes not shown, please consult factory for availability.
2. Dimensions of "B" and "F2" Hex Flats may vary based on "A" Thread and Conduit size ordered. "F2" Hex Flats will be determined by the larger of the two, but no smaller than "F2" specified in Table II.

Metric Dimensions (mm) are indicated in parentheses.



712-460

**FIRST Swivel Adapter for Glenair Conduit Fittings**  
**Mates with Series 75 Metal-Core Conduit (750-145 & 750-147)**



Conduit  
Systems

**TABLE I**

Dash Number	A Thread Class 2B	B Hex Flats	C ± .010
24	3/4-20 UNEF	.875 (22.2)	.505 (12.8)
28	7/8-20 UNEF	1.000 (25.4)	.630 (16.0)
32	1-20 UNEF	1.125 (28.6)	.755 (19.2)
36	1 1/8-18 UNEF	1.250 (31.8)	.880 (22.4)
40	1 1/4-18 UNEF	1.375 (34.9)	1.005 (25.5)
42	1 5/16-18 UNEF	1.438 (36.5)	1.005 (25.5)
48	1 1/2 -18 UEF	1.625 (41.3)	1.193 (30.3)
56	1 3/4-18 UNS	1.938 (49.2)	1.505 (38.2)

**TABLE II**

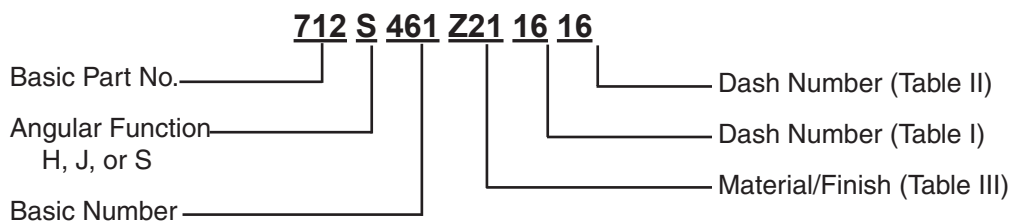
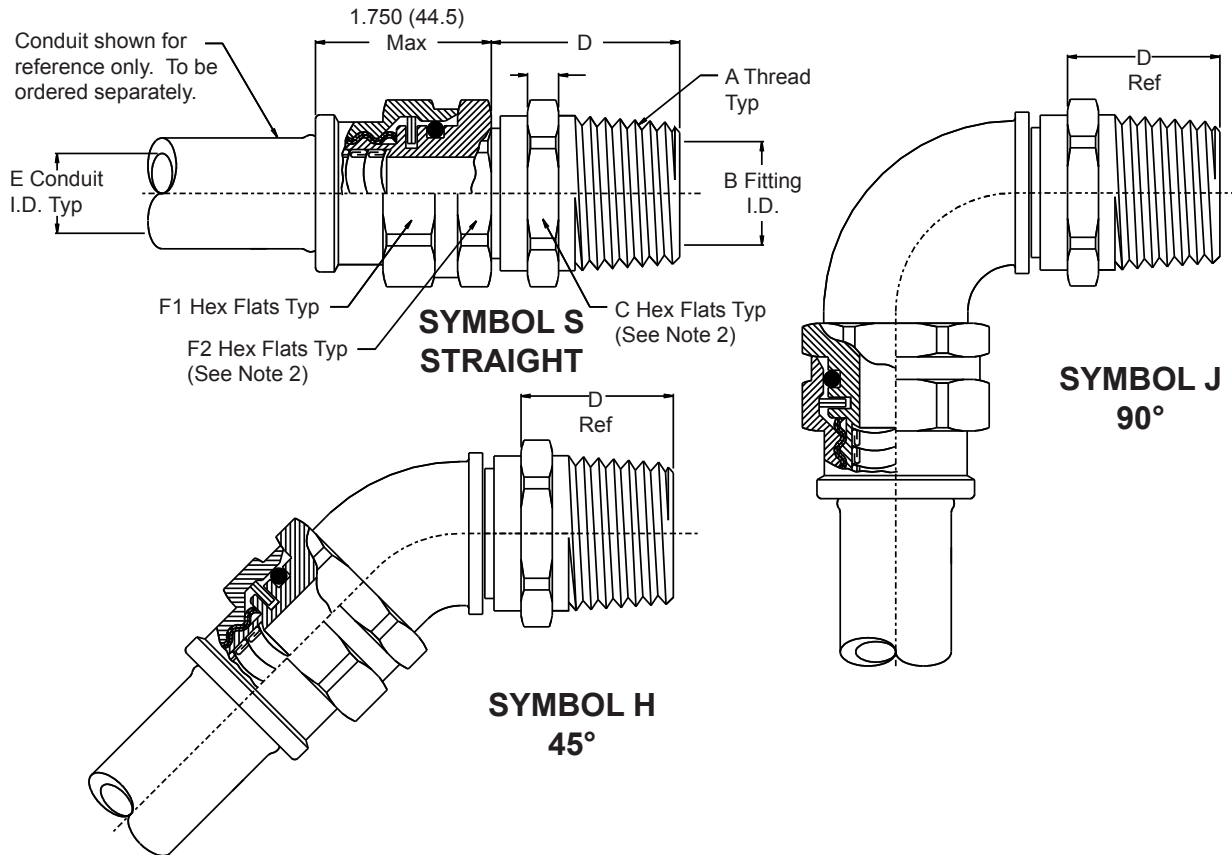
Dash Number	E Ref	F1/F2 Hex Flats
16	.500 (12.7)	1.375 (34.9)
24	.750 (19.1)	1.625 (41.3)
32	1.000 (25.4)	2.000 (50.8)
40	1.125 (28.6)	2.250 (57.2)
48	1.500 (38.1)	2.750 (69.9)

**TABLE III: MATERIAL AND FINISH**

Symbol	Material	Finish
<b>ZN</b>	Aluminum Alloy	Zinc Nickel (500-Hour Salt Spray)
<b>BZN</b>	Brass	
<b>Z21</b>	316 Cres	Passivate

**Mates with  
 710-498 & 710-702  
 Bulkhead Feed-Thru Adapters  
 and Other Glenair  
 Adapters and Transitions**

Metric Dimensions (mm) are indicated in parentheses.



**NOTES:**

1. For Thread (Table I) or Conduit (Table II) sizes not shown, please consult factory for availability.
2. Dimensions of "B" and "F2" Hex Flats may vary based on "A" Thread and Conduit size ordered. "F2" Hex Flats will be determined by the larger of the two, but no smaller than "F2" specified in Table II.

Metric Dimensions (mm) are indicated in parentheses.



**TABLE I**

Dash Number	A Thread N P T	B I.D.	C Hex Flats	D
12	3/8 - 18	.375 (9.5)	1.000 (25.4)	1.400 (35.6)
16	1/2 - 14	.500 (12.7)	1.120 (28.4)	1.580 (40.1)
24	3/4 - 14	.750 (19.1)	1.370 (34.8)	1.590 (40.4)
32	1 - 11 1/2	1.000 (25.4)	1.620 (41.1)	1.790 (45.5)
40	1 1/4 - 11 1/2	1.250 (31.8)	1.870 (47.5)	1.810 (46.0)
48	1 1/2 - 11 1/2	1.500 (38.1)	2.120 (53.8)	1.830 (53.1)
64	2 - 11 1/2	2.000 (50.8)	2.750 (69.9)	1.860 (46.5)
80	2 1/2 - 8	2.500 (63.5)	3.250 (82.6)	2.370 (60.2)
96	3 - 8	3.000 (76.2)	3.750 (95.3)	2.430 (61.7)

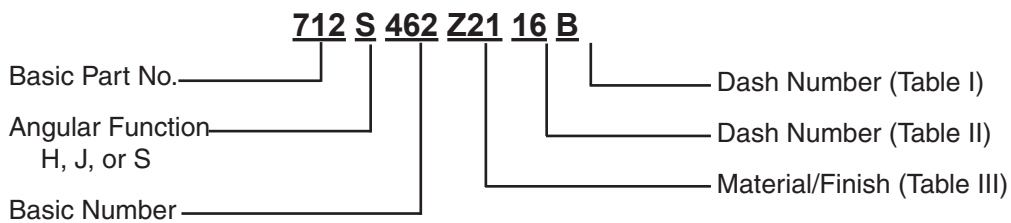
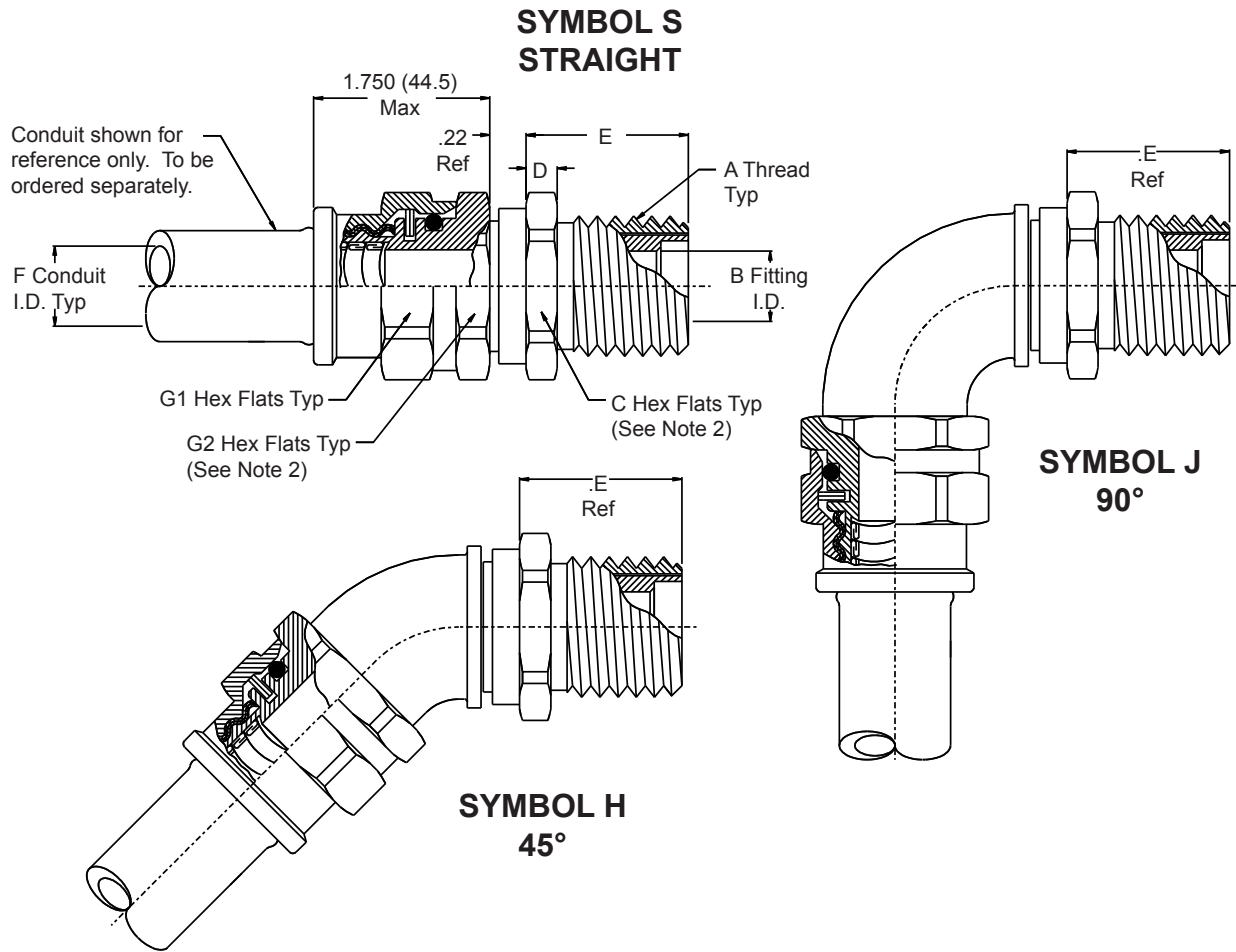
**TABLE II**

Dash Number	E Ref	F1/F2 Hex Flats
16	.500 (12.7)	1.370 (34.8)
24	.750 (19.1)	1.620 (41.1)
32	1.000 (25.4)	2.000 (50.8)
40	1.125 (28.6)	2.250 (57.2)
48	1.500 (38.1)	2.750 (69.9)

**TABLE III: MATERIAL AND FINISH**

Symbol	Material	Finish
<b>ZN</b>	Aluminum Alloy	Zinc Nickel (500-Hour Salt Spray)
<b>BZN</b>	Brass	
<b>Z21</b>	316 Cres	Passivate

Metric Dimensions (mm) are indicated in parentheses.



**NOTES:**

1. For Thread (Table I) or Conduit (Table II) sizes not shown, please consult factory for availability.
2. Dimensions of "C" and "G2" Hex Flats may vary based on "A" Thread and Conduit size ordered. "C" Hex Flats will be determined by the larger of the two, but no smaller than "G2" specified in Table II.

Metric Dimensions (mm) are indicated in parentheses.



**TABLE I**

Size Letter Designator	A Thread Class 2B	B I.D.	C Hex Flats Min	D Dim	D Dim
A	7/8-12 UN	.406 (10.3)	1.130 (28.7)	.190 (4.8)	1.060 (26.9)
B	1-12 UNF	.515 (13.1)	1.130 (28.7)	.190 (4.8)	1.060 (26.9)
C	1 1/8-12 UNF	.640 (16.3)	1.250 (31.8)	.190 (4.8)	1.060 (26.9)
D	1 1/4-12 UNF	.750 (19.1)	1.380 (35.1)	.190 (4.8)	1.060 (26.9)
E	1 1/4-12 UNF	.812 (20.6)	1.380 (35.1)	.190 (4.8)	1.060 (26.9)
F	1 5/16-12 UN	.843 (21.4)	1.500 (38.1)	.190 (4.8)	1.190 (30.2)
G	1 1/2-12 UNF	.953 (24.2)	1.750 (44.5)	.190 (4.8)	1.190 (30.2)
J	1 5/8-12 UN	1.062 (27.0)	1.880 (47.8)	.190 (4.8)	1.190 (30.2)
K	1 3/4-12 UN	1.171 (29.7)	1.880 (47.8)	.190 (4.8)	1.500 (38.1)
L	1 13/16-12 UN	1.265 (32.1)	2.000 (50.8)	.190 (4.8)	1.500 (38.1)
M	2-12 UN	1.406 (35.7)	2.250 (57.2)	.250 (6.4)	1.500 (38.1)
N	2 1/16-12 UN	1.515 (38.5)	2.250 (57.2)	.250 (6.4)	1.560 (39.6)
P	2 3/16-12 UNS	1.625 (41.3)	2.380 (60.5)	.250 (6.4)	1.560 (39.6)
R	2 5/16-12 UNS	1.750 (44.5)	2.500 (63.5)	.250 (6.4)	1.560 (39.6)

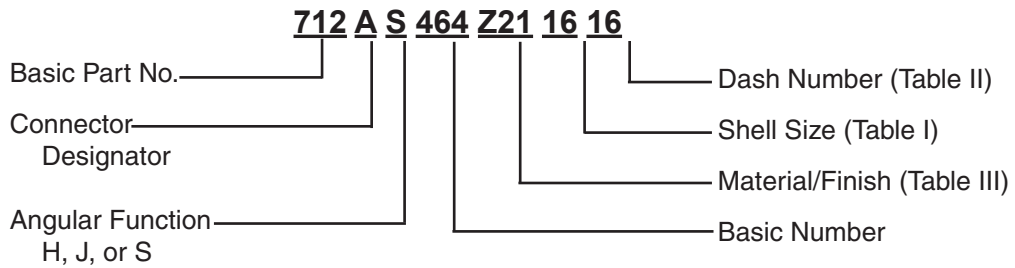
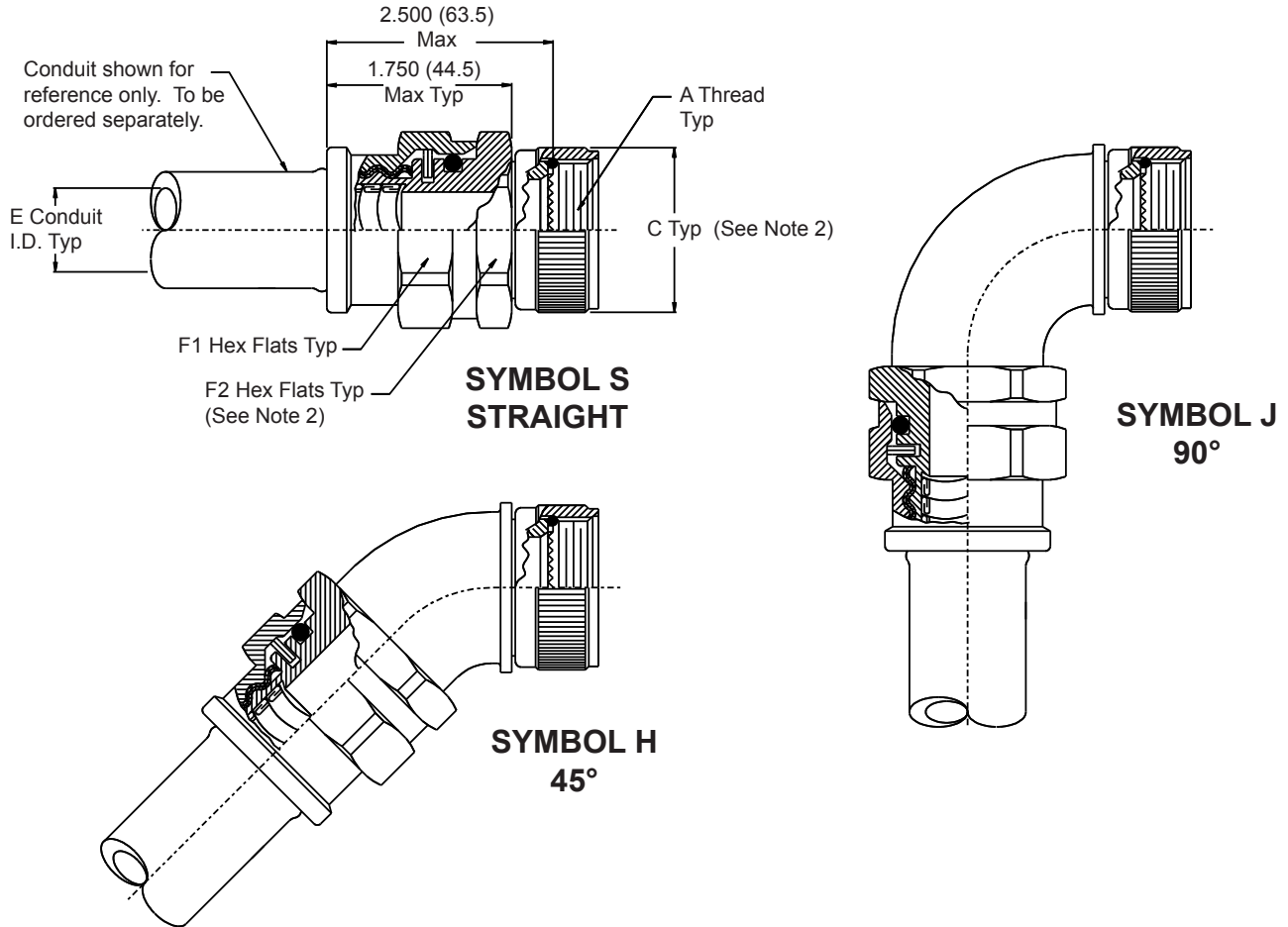
**TABLE II**

Dash Number	E Ref	G1/G2 Hex Flats
16	.500 (12.7)	1.370 (34.8)
24	.750 (19.1)	1.620 (41.1)
32	1.000 (25.4)	2.000 (50.8)
40	1.125 (28.6)	2.250 (57.2)
48	1.500 (38.1)	2.750 (69.9)

**TABLE III: MATERIAL AND FINISH**

Symbol	Material	Finish
ZN	Aluminum Alloy	Zinc Nickel (500-Hour Salt Spray)
BZN	Brass	
Z21	316 Cres	Passivate

Metric Dimensions (mm) are indicated in parentheses.



**NOTES:**

1. For Thread (Table I) or Conduit (Table II) sizes not shown, please consult factory for availability.
2. Dimensions of "B" and "F2" Hex Flats may vary based on "A" Thread and Conduit size ordered. "F2" Hex Flats will be determined by the larger of the two, but no smaller than "F2" specified in Table II.

Metric Dimensions (mm) are indicated in parentheses.

712-464

**Glenair *FIRST* Swivel Adapter Connector Fitting**  
**Mates with Series 75 Metal-Core Conduit (750-145 & 750-147)**



Conduit  
Systems

**TABLE I**

Connector Designator	Military Specification	Available Shell Sizes															
A	MIL-C-5015 MS3400 Series	08	10	12	14	16	18	20	22	24	28	32	36	40	44	48	
	MIL-C-26482 Series II																
	MIL-C-83723 Series I & III																
C	MIL-C-22992 Cl. C & R	x	x	12	14	16	18	20	22	24	28	32	36	40	x	x	
D	MIL-C-26482 Series I	08	10	12	14	16	18	20	22	24	x	x	x	x	x	x	
E	MIL-C-26500 Cl. F, G & R	08	10	12	14	16	18	20	22	24	x	x	x	x	x	x	
F	MIL-DTL-38999 Series I & II	08	10	12	14	16	18	x	22	24	x	x	x	x	x	x	
G	MIL-C-28840	x	11	13	15	17	19	23	25	29	33	x	x	x	x	x	
H	MIL-DTL-38999 Series III & IV	09	11	13	15	17	19	21	23	25	x	x	x	x	x	x	
J	MIL-C-81511 Series I, II, III & IV	08	10	x	14	16	18	20	22	24	x	x	x	x	x	x	

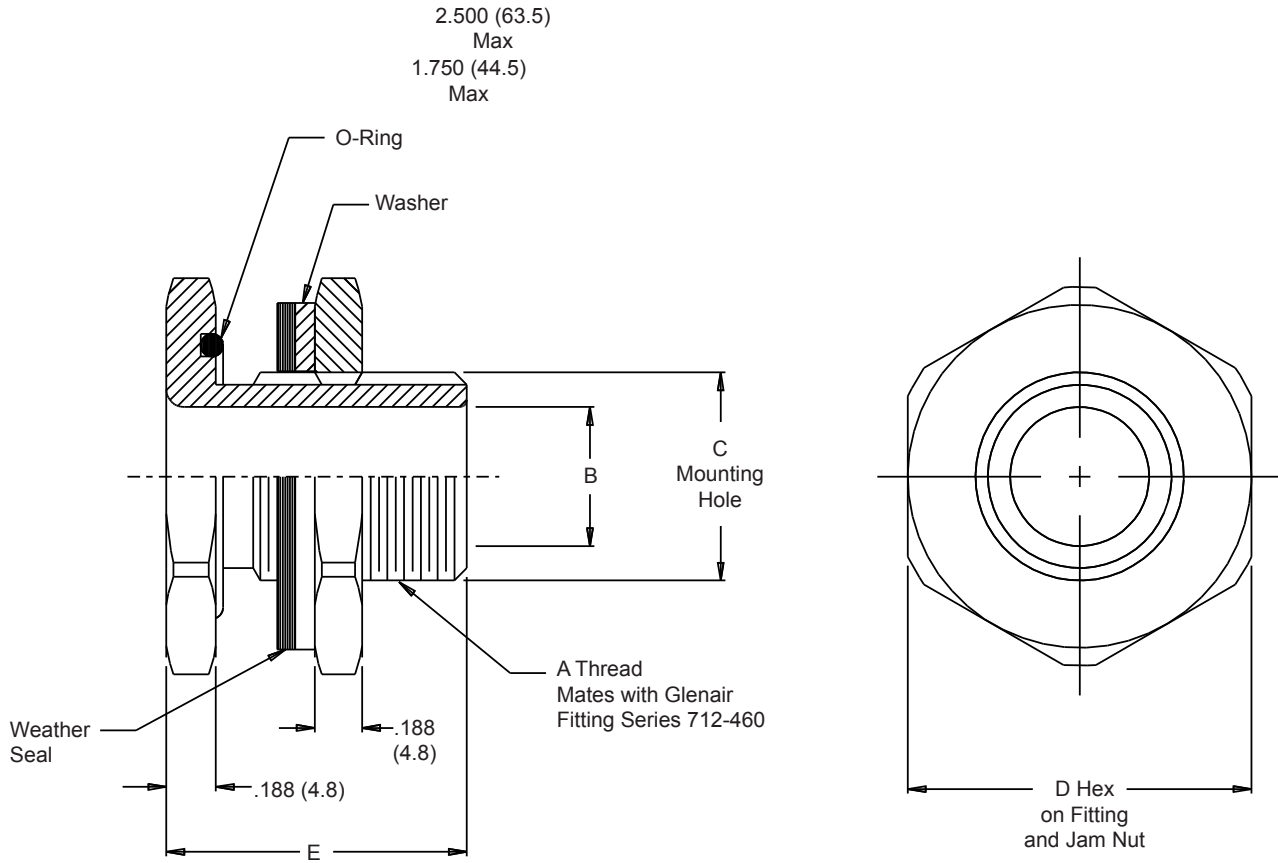
**TABLE II**

Dash Number	E Ref	F1/F2 Hex Flats
16	.500 (12.7)	1.370 (34.8)
24	.750 (19.1)	1.620 (41.1)
32	1.000 (25.4)	2.000 (50.8)
40	1.125 (28.6)	2.250 (57.2)
48	1.500 (38.1)	2.750 (69.9)

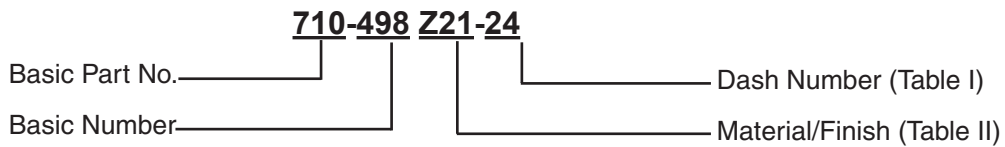
**TABLE III: MATERIAL AND FINISH**

Symbol	Material	Finish
<b>ZN</b>	Aluminum Alloy	Zinc Nickel (500-Hour Salt Spray)
<b>BZN</b>	Brass	
<b>Z21</b>	316 Cres	Passivate

Metric Dimensions (mm) are indicated in parentheses.



1 of 1



Metric Dimensions (mm) are indicated in parentheses.



710-498

**FIRST Bulkhead Feed-Thru Adapter**  
Mates with Series 75 Metal-Core Conduit (750-145 & 750-147)



Conduit  
Systems

**TABLE I**

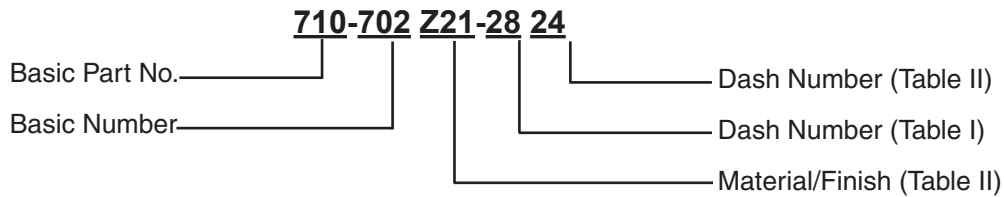
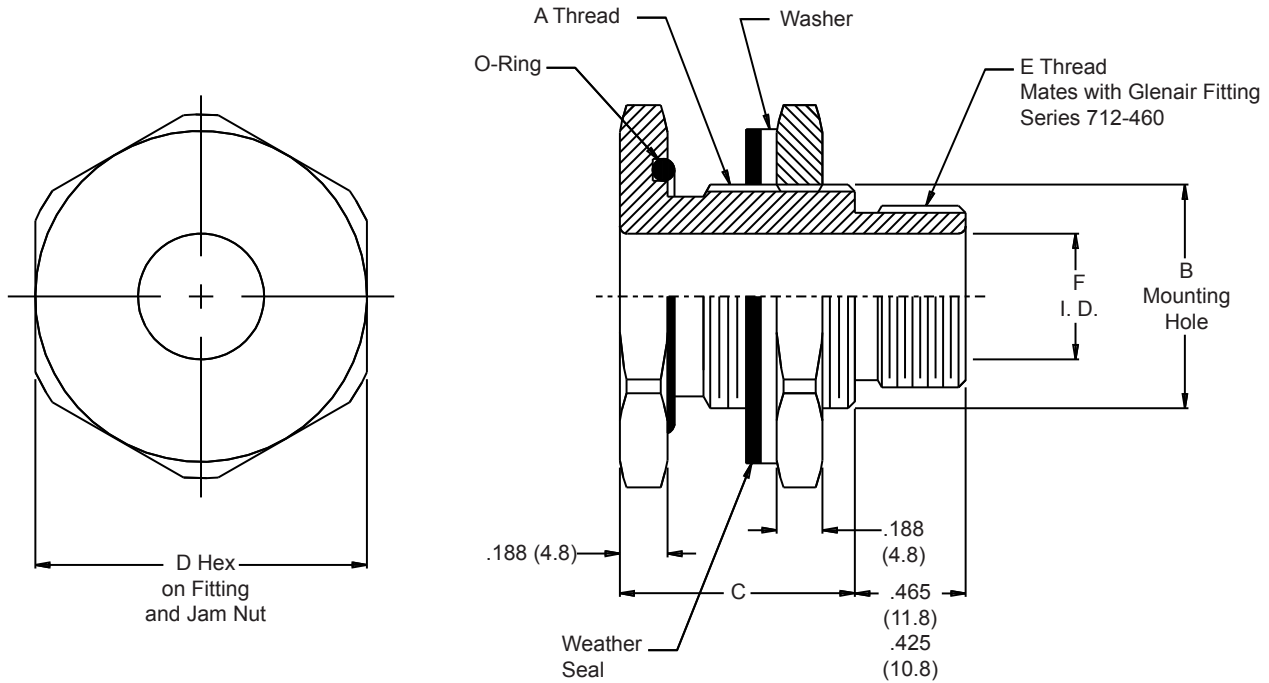
Dash Number	A Thread Class 2A	B Dia	C Dia +.030 (0.8) -0	D Hex	E Length
24	3/4-20 UNEF	.505 (12.8)	.750 (19.1)	1.000 (25.4)	1.000 (25.4)
28	7/8-20 UNEF	.630 (16.0)	.880 (22.4)	1.125 (28.6)	1.000 (25.4)
32	1-20 UNEF	.755 (19.2)	1.000 (25.4)	1.250 (31.8)	1.000 (25.4)
36	1 1/8-18 UNEF	.880 (22.4)	1.130 (28.7)	1.375 (34.9)	1.000 (25.4)
40	1 1/4-18 UNEF	1.005 (25.5)	1.250 (31.8)	1.500 (38.1)	1.000 (25.4)
42	1 5/16-18 UNEF	1.005 (25.5)	1.310 (33.3)	1.625 (41.3)	1.000 (25.4)
48	1 1/2-18 UNEF	1.193 (30.3)	1.500 (38.1)	1.750 (44.5)	1.000 (25.4)
56	1 3/4-18 UNS	1.505 (38.2)	1.750 (44.5)	2.000 (50.8)	1.130 (28.7)

**TABLE II: MATERIAL AND FINISH**

Symbol	Material	Finish
Z21	316 Cres	Passivate

Metric Dimensions (mm) are indicated in parentheses.

**710-702**  
**FIRST Bulkhead Feed-Thru Adapter Reducer**  
 Mates with Series 75 Metal-Core Conduit (750-145 & 750-147)



Metric Dimensions (mm) are indicated in parentheses.

710-702

**FIRST Bulkhead Feed-Thru Adapter Reducer**  
**Mates with Series 75 Metal-Core Conduit (750-145 & 750-147)**



Conduit  
Systems

TABLE I

Dash Number	A Thread Class 2A	B Dia +.030 (0.8) -0	C ±.020	D Hex	Max E Thread
28	7/8-20 UNEF	.880 (22.4)	.750 (19.1)	1.125 (28.6)	3/4-20
32	1-20 UNEF	1.000 (25.4)	.750 (19.1)	1.250 (31.8)	7/8-20
36	1 1/8-18 UNEF	1.130 (28.7)	.750 (19.1)	1.375 (34.9)	1-20
40	1 1/4-18 UNEF	1.250 (31.8)	.750 (19.1)	1.500 (38.1)	1 1/8-18
42	1 5/16-18 UNEF	1.310 (33.3)	.750 (19.1)	1.625 (41.3)	1 1/4-18
48	1 1/2-18 UNEF	1.500 (38.1)	.750 (19.1)	1.750 (44.5)	1 5/16-18
56	1 3/4-18 UNS	1.750 (44.5)	.880 (22.4)	2.000 (50.8)	1 1/2-18

TABLE II

Dash Number	E Thread Class 2A	F I.D.
24	3/4-20 UNEF	.505 (12.8)
28	7/8-20 UNEF	.630 (16.0)
32	1-20 UNEF	.755 (19.2)
36	1 1/8-18 UNEF	.880 (22.4)
40	1 1/4-18 UNEF	1.005 (25.5)
42	1 5/16-18 UNEF	1.005 (25.5)
48	1 1/2-18 UNEF	1.193 (30.3)

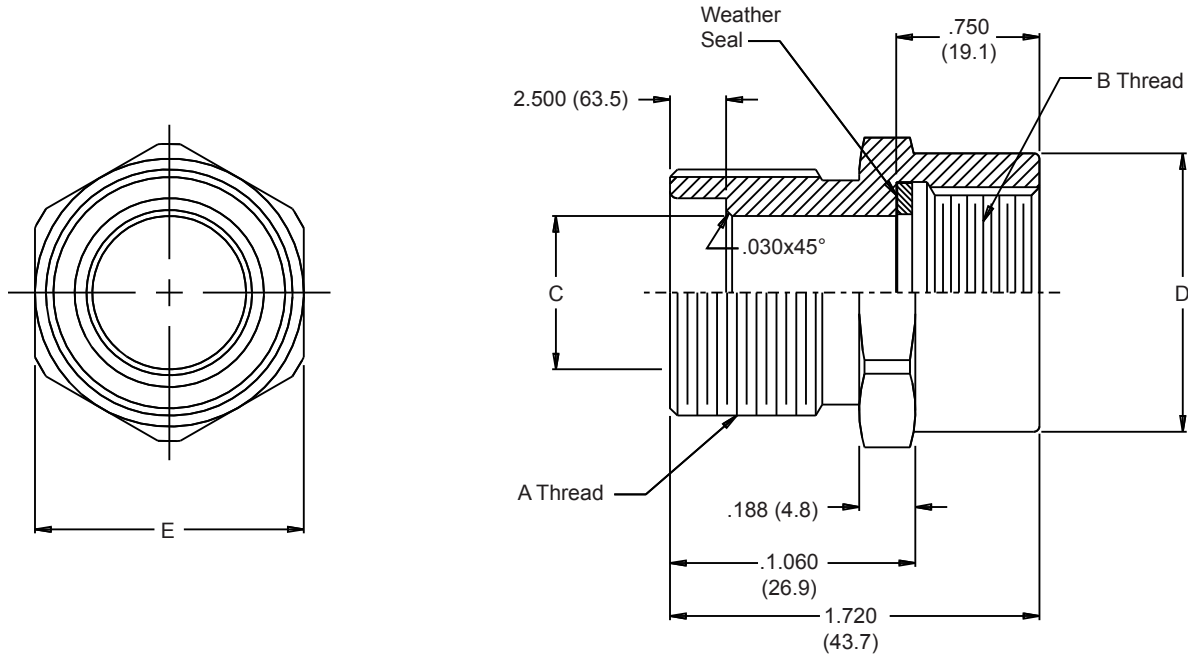
TABLE III: MATERIAL AND FINISH

Symbol	Material	Finish
Z21	316 Cres	Passivate

Metric Dimensions (mm) are indicated in parentheses.

# 717-148

## FIRST Special Purpose Reducer Stuffing Adapter Mates with Series 75 Metal-Core Conduit (750-145 & 750-147)



### 717-148-AB

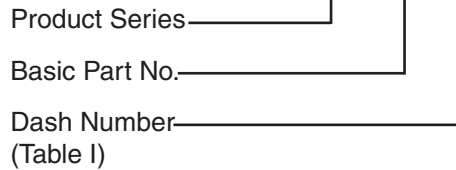


TABLE I					
Dash Number	A Thread Class 2A	B Thread Class 2B	C Dia	D Dia	E Hex Flats
AB	7/8-12 UN	1-12 UN	.406 (10.3)	1.130 (28.7)	1.130 (28.7)
CD	1 1/8-12 UNF	1 1/4-12 UN	.640 (16.3)	1.380 (35.1)	1.380 (35.1)
DG	1 1/4-12 UNF	1 1/2-12 UNF	.953 (24.2)	1.630 (41.4)	1.750 (44.5)
BC	1-12 UNF	1 1/8-12 UNF	.515 (13.1)	1.250 (31.8)	1.250 (31.8)
BD	1-12 UNF	1 1/4-12 UNF	.515 (13.1)	1.380 (35.1)	1.380 (35.1)

Metric Dimensions (mm) are indicated in parentheses.

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